

NBS  
PUBLICATIONS

NAT'L INST. OF STAND & TECH



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# NBS SPECIAL PUBLICATION 687

U.S. DEPARTMENT OF COMMERCE/National Bureau of Standards

1984 NVLAP

## Directory of Accredited Laboratories

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The National Bureau of Standards<sup>1</sup> was established by an act of Congress on March 3, 1901. The Bureau's overall goal is to strengthen and advance the nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the nation's physical measurement system, (2) scientific and technological services for industry and government, (3) a technical basis for equity in trade, and (4) technical services to promote public safety. The Bureau's technical work is performed by the National Measurement Laboratory, the National Engineering Laboratory, the Institute for Computer Sciences and Technology, and the Center for Materials Science.

### *The National Measurement Laboratory*

Provides the national system of physical and chemical measurement; coordinates the system with measurement systems of other nations and furnishes essential services leading to accurate and uniform physical and chemical measurement throughout the Nation's scientific community, industry, and commerce; provides advisory and research services to other Government agencies; conducts physical and chemical research; develops, produces, and distributes Standard Reference Materials; and provides calibration services. The Laboratory consists of the following centers:

- Basic Standards<sup>2</sup>
- Radiation Research
- Chemical Physics
- Analytical Chemistry

### *The National Engineering Laboratory*

Provides technology and technical services to the public and private sectors to address national needs and to solve national problems; conducts research in engineering and applied science in support of these efforts; builds and maintains competence in the necessary disciplines required to carry out this research and technical service; develops engineering data and measurement capabilities; provides engineering measurement traceability services; develops test methods and proposes engineering standards and code changes; develops and proposes new engineering practices; and develops and improves mechanisms to transfer results of its research to the ultimate user. The Laboratory consists of the following centers:

- Applied Mathematics
- Electronics and Electrical Engineering<sup>2</sup>
- Manufacturing Engineering
- Building Technology
- Fire Research
- Chemical Engineering<sup>2</sup>

### *The Institute for Computer Sciences and Technology*

Conducts research and provides scientific and technical services to aid Federal agencies in the selection, acquisition, application, and use of computer technology to improve effectiveness and economy in Government operations in accordance with Public Law 89-306 (40 U.S.C. 759), relevant Executive Orders, and other directives; carries out this mission by managing the Federal Information Processing Standards Program, developing Federal ADP standards guidelines, and managing Federal participation in ADP voluntary standardization activities; provides scientific and technological advisory services and assistance to Federal agencies; and provides the technical foundation for computer-related policies of the Federal Government. The Institute consists of the following centers:

- Programming Science and Technology
- Computer Systems Engineering

### *The Center for Materials Science*

Conducts research and provides measurements, data, standards, reference materials, quantitative understanding and other technical information fundamental to the processing, structure, properties and performance of materials; addresses the scientific basis for new advanced materials technologies; plans research around cross-country scientific themes such as nondestructive evaluation and phase diagram development; oversees Bureau-wide technical programs in nuclear reactor radiation research and nondestructive evaluation; and broadly disseminates generic technical information resulting from its programs. The Center consists of the following Divisions:

- Inorganic Materials
- Fracture and Deformation<sup>3</sup>
- Polymers
- Metallurgy
- Reactor Radiation

<sup>1</sup>Headquarters and Laboratories at Gaithersburg, MD, unless otherwise noted; mailing address Gaithersburg, MD 20899.

<sup>2</sup>Some divisions within the center are located at Boulder, CO 80303.

<sup>3</sup>Located at Boulder, CO, with some elements at Gaithersburg, MD.

1984 NVLAP

NATIONAL BUREAU  
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# Directory of Accredited Laboratories

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Harvey W. Berger, Editor

Office of Product Standards Policy  
National Bureau of Standards  
Gaithersburg, MD 20899



*NBS special publication*

U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, Secretary  
NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director

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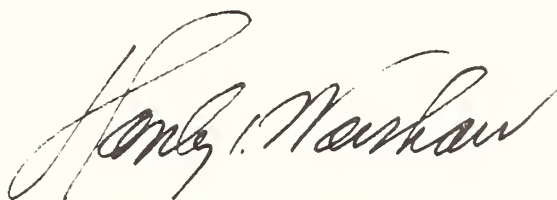
## PREFACE

The National Bureau of Standards' National Voluntary Laboratory Accreditation Program (NVLAP) improves the competence of testing laboratories and the reliability of laboratory measurements through transfer of measurement technology. Critical elements of test methods are identified along with precision and accuracies expected from the methods when measurements are made. Proficiency testing and interlaboratory comparisons contribute to improved test methods and laboratory performance.

This directory provides information on the activities of the National Bureau of Standards in administering NVLAP during calendar year 1984. Voluntary participation by the Nation's laboratories is increasing and several new accreditation efforts requested by government agencies and private organizations have been established.

The accredited laboratories have been found competent to perform the specific test methods shown in the Directory of Accredited Laboratories. They have the skilled people, necessary facilities and equipment, and documentation and quality assurance systems to produce reliable test data. We recommend that consideration be given to the use of these laboratories whenever their accredited testing capabilities satisfy testing needs.

NVLAP has also provided the basis for acceptance by other countries of test data produced by laboratories in the United States through bilateral agreements. We shall continue to work toward liberalizing the means to satisfying trade requirements whenever possible.

A handwritten signature in dark ink, appearing to read "Henry I. Nashaw". The signature is fluid and cursive, with the first name "Henry" being more prominent and the last name "Nashaw" following in a similar style.

*Director  
Office of Product Standards Policy*





# 1984 NVLAP DIRECTORY OF ACCREDITED LABORATORIES

## Contents

	Page
<b>PREFACE .....</b>	iii
 <b>REPORT OF PROGRAM ACTIVITIES</b>	
Introduction .....	1
Revision of Procedures .....	1
Established Laboratory Accreditation Programs .....	1
Insulation .....	2
Concrete .....	2
Carpet .....	2
Stove .....	2
Acoustics .....	2
Dosimetry .....	2
Commercial Products .....	2
Film .....	2
Laboratory Participation Summary .....	2
 <b>APPENDIX Administrative Procedures</b>	
NVLAP Accreditation Process .....	4
Establishment of New LAPs .....	6
 <b>ACCREDITED LABORATORIES AND TEST METHODS FOR WHICH THEY ARE ACCREDITED ...</b>	 7
 <b>INDEXES</b>	
1. Laboratory Name and NVLAP Lab Code Number .....	57
2. LAP Name and Laboratories Accredited Under Each LAP .....	60
3. Accredited Laboratories by State and NVLAP Code Number .....	63
4. Test Methods Available Under Each LAP and NVLAP Code Numbers of Laboratories Accredited for those Test Methods .....	66





# REPORT OF PROGRAM ACTIVITIES

## Introduction

The National Voluntary Laboratory Accreditation Program (NVLAP), administered by the National Bureau of Standards (NBS), was established in 1976 to accredit laboratories for specific tests or types of tests in certain product or service areas where a need for accreditation is determined. As of December 31, 1984, NVLAP has accredited 130 laboratories by laboratory accreditation program (LAP).

Accreditation criteria, which are published as part of the NVLAP procedures, are used for evaluating applicant laboratories. NBS uses periodic on-site assessments, proficiency testing programs, and questionnaires as evaluation tools.

This Directory is the eighth in a series of documents which describe NVLAP program activities and present the list of accredited laboratories and the test methods for which they are accredited.

The beginning of Fiscal Year 1985, on October 1, marked the successful completion of the first phase of NVLAP operations. Since its inception, NVLAP has been provided Federal resources for the development of new LAPs. In keeping with program objectives NVLAP began fully cost reimbursable operations on October 1. Requestors of new LAPs are asked to provide resources for the development of the technical content of new LAPs. In most cases contributing technical assistance, in the development of requirements and criteria, through personal participation rather than funding is needed to initiate a new LAP.

The following sections describe the status of current LAPs, the growth in laboratory participation, and the processes for becoming accredited and requesting new LAPs.

## Revision of Procedures

The NVLAP Procedures underwent the first major revision since the procedures were established in February 1976. NBS published the new NVLAP procedures in the *Federal Register* on November 8, 1984. The goals of NVLAP remain unchanged, but the requirements for requesting, developing, and establishing laboratory accreditation programs (LAPs) have been significantly changed. Use of the *Federal Register* has also been minimized.

The goals of NVLAP are to:

- (1) Provide national recognition for competent laboratories;
- (2) Provide laboratory management with a quality assurance check;
- (3) Identify competent laboratories for laboratory users; and
- (4) Provide laboratories with guidance from technical experts to improve their performance.

Previous requirements for monthly, quarterly and annual reports, many of which needed to be published in the *Federal Register*, have been eliminated. Now, a directory of accredited laboratories will be published annually, with periodic supplements to the directory published as necessary.

LAPs will continue to be developed in response to requests and demonstrated need. However, preliminary and final findings of need will no longer be published in the *Federal Register*. A requestor must still identify the product or service of a proposed LAP and the standards and test methods proposed for inclusion as well as state why the public would benefit, why there is a national need for such a LAP, and what the expected market would be. Interested parties still have the opportunity to comment on the need for any proposed LAP.

In addition to the actions of granting, renewing, denying, and revoking accreditation, NBS will now have the flexibility of suspending a laboratory's accreditation.

Conditions and criteria for accreditation have been clarified and enhanced. The criteria essentially follow the requirements of *ISO Guide 25: General Requirements for the Technical Competence of Testing Laboratories*. The elements of the criteria address a laboratory's:

- (1) quality system;
- (2) staff;
- (3) facilities and equipment;
- (4) calibration;
- (5) test methods and procedures;
- (6) records; and
- (7) test reports.

Overall, the revision is a significant improvement that enables NBS to administer NVLAP more efficiently than was possible under the previous procedures.

## Established Laboratory Accreditation Programs

Laboratories continue to apply for initial accreditation and reaccreditation in the Thermal Insulation, Concrete, Carpet, Stove, and Acoustics LAPs. In addition,

new LAPs have been established for: laboratories that test paint, paper, or mattresses (the Commercial Products LAP), processors of personnel dosimeters (the Dosimetry LAP), and laboratories that test photographic film (the Film LAP). Laboratories have requested and been accredited under the Commercial and Dosimetry LAPs.

The current participation and accreditable test methods for all established LAPs are given in following sections of this Directory.

#### **Insulation LAP**

The LAP for thermal insulation materials testing has 62 test methods for which a laboratory can seek accreditation. As of December 31, 1984, 36 laboratories were accredited to perform those test methods. Twenty-seven on-site visits were made during the year to accredited laboratories or those seeking accreditation. NBSIR 84-2890 reporting the results of Proficiency Test Round 9 was issued in May 1984. The results of Round 10 will be issued in 1985.

#### **Concrete LAP**

The LAP for freshly mixed concrete testing has seven test methods covering field testing and laboratory testing. As of December 31, 1984, 31 laboratories were accredited to perform selected test methods. Thirteen on-site visits were made during the year to accredited laboratories or those seeking accreditation. Results of the Concrete LAP between-laboratory proficiency testing program were reported to participants in August 1984.

#### **Carpet LAP**

The LAP for carpet testing has 12 test methods for which a laboratory can seek accreditation. As of December 31, 1984, 24 laboratories were accredited to perform selected test methods. The Department of Housing and Urban Development uses test results produced by these laboratories as part of its carpet certification program. Seventeen on-site visits were made during the year to accredited laboratories or those seeking accreditation. The sixth and seventh rounds of proficiency testing were completed for carpet test methods involving colorfastness, pile weight, pile thickness, strength, and flammability properties. A Tech Brief reporting the results of Round 7 and summarizing the results of Rounds 1 through 7, was issued in February 1984. Round 8 will be issued early in 1985.

#### **Stove LAP**

The LAP for solid fuel room heaters has 36 test methods, arranged in three groups: (1) a physical/fire test group, (2) a mobile home test group, and (3) an electrical test group, for which a laboratory can seek accreditation. Canadian Standards Association (CSA) Standards B 366.2-M1984, C 22.2 No. 103-1979, and C 22.2 No. 113-1982, have been added to the available test methods. A laboratory may be accredited in any

one of 12 options which are various combinations of the three groups and Underwriters Laboratory and CSA standards. As of December 31, 1984, 10 laboratories were accredited to perform selected test methods. Four on-site visits were made during the year to accredited laboratories or those seeking accreditation. A Tech Brief reporting the results of Round 2 Proficiency Testing was issued in November 1984.

#### **Acoustics LAP**

The LAP for acoustical testing services has 49 test methods for which a laboratory can seek accreditation. As of December 31, 1984, eight laboratories were accredited to perform selected test methods. Three on-site visits were made during the year to laboratories seeking accreditation. Data have been collected from participating laboratories for Round 1 of proficiency testing for ASTM test method E 90. A Tech Brief reporting the results of the first round of proficiency testing for C 423-81 was issued in September 1984.

#### **Dosimetry LAP**

The LAP for Personnel Radiation Dosimetry Processors began officially on January 1, 1984. Processors may be accredited in any or all of eight categories. During the year 29 processors participated in proficiency testing in accordance with ANSI N13.11-1983. Successful completion of proficiency testing in each category requested is mandatory to gain accreditation. Twenty-three on-site visits were made to processors seeking initial accreditation in this LAP. As of December 31, 1984, 19 processors have been accredited.

#### **Commercial Products LAP**

The LAP for commercial products has a total of 188 test methods: 127 for paint and related materials, 55 for paper and related products, and 6 for mattresses. As of December 31, 1984, 2 laboratories received on-site visits and received initial accreditation to perform selected test methods under the paint section of the LAP. The two laboratories are participating in a proficiency testing program operated by Collaborative Testing Services, Inc. as a requirement for accreditation under the LAP.

#### **Film LAP**

The LAP for photographic film was officially established on August 31, 1984. Several individuals are being considered for selection as technical experts to carry out on-site assessments and laboratory evaluations prior to accreditation.

### **Laboratory Participation Summary**

The number of laboratories in the system, as of December 31, 1984, categorized by LAP participation is shown below.

	Number
Laboratories in One LAP	
Insulation (TIM) .....	25
Concrete (CON) .....	30
Carpet (CAR) .....	18
Stove (STO) .....	8
Acoustics (ACO) .....	5
Dosimetry (DOS) .....	19
Commercial (CPL) .....	2
Film (FLM) .....	0
Laboratories in Two LAPs	
Insulation and Carpet .....	5
Insulation and Acoustics .....	3
Insulation and Stove .....	1
Insulation and Concrete .....	1
Laboratories in Three LAPs	
Insulation, Carpet and Stove .....	1
Laboratories in More Than Three LAPs .....	0
Total .....	118

The following table summarizes accreditation actions that have occurred during calendar year 1984. Since some laboratories are accredited in more than one LAP, the number of accredited laboratories listed by LAP is greater than the number of laboratories in the system.

	LAP Name								
	TIM	CON	CAR	STO	ACO	DOS	CPL	FLM	TOTAL
Voluntary									
Terminations ...	2	10	1	0	0	0	0	0	13
New Laboratory									
Accreditations ..	6	3	3	0	1	19	2	0	34
Total Accredited									
Labs by LAP...	36	31	24	10	8	19	2	0	130
Change in Total									
Accredited									
Labs from									
December,									
1983 .....	+4	-7	+2	0	+1	+19	+2	0	+21



# APPENDIX

## Administrative Procedures

### NVLAP Accreditation Process

Accreditation is granted following successful completion of a process which includes submission of an application and payment of fees by the laboratory, on-site assessments, proficiency testing, resolution of any identified deficiencies, evaluation, and administrative review.

#### Criteria and Conditions of Accreditation

The criteria for accreditation address a laboratory's quality system, staff, facilities and equipment, calibration, test methods and procedures, records, and test reports. Under the conditions of accreditation, a laboratory must limit its test work to those areas where competence and capacity are available and must render test reports objectively and without bias. Evidence found to the contrary is grounds for adverse accreditation action (denial, suspension or revocation).

#### On-site Assessment

Before initial accreditation and about every 2 years thereafter, an on-site assessment of each laboratory is conducted to determine compliance with the criteria. Assessors use checklists so that each laboratory receives a fair assessment in relation to others. However, assessors have considerable latitude to make judgments about each laboratory's compliance with the criteria depending on their experience and the unique circumstances of each laboratory. The assessors are selected and assigned on the basis of their expertise in the testing techniques to be reviewed. The time needed to conduct an assessment varies, but 2 days is the norm. Every effort is made to conduct an assessment with as little disruption as possible to the normal operations of the laboratory. The assessors:

- (1) Meet with management and supervisory personnel responsible for the laboratory's activities for which accreditation is being sought to acquaint the individuals involved and to set the assessment agenda.
- (2) Examine the quality system employed by the laboratory. The history of one or more samples from receipt to final issuance of test reports is traced. Assessors thoroughly review the laboratory's quality manual or equivalent, examine technician notebooks for records pertaining to the samples, check sample identification and tracking procedures, determine whether the appropriate testing conditions are maintained, and examine copies of completed test reports.
- (3) Review records of periodic internal audits, use of check samples or participation in round robin testing or other similar programs.
- (4) Review representative records including competency evaluations for all staff members who perform the tests, calibration/verification records, and sample control records.
- (5) Observe demonstrations of testing techniques and discuss them with the technical personnel to assure their understanding of the procedures.
- (6) Examine major equipment, apparatus, and facilities.

At the conclusion of the assessment, an exit briefing is held to discuss assessment findings with laboratory management and identify any deficiencies uncovered. A written summary of all identified deficiencies is left at the laboratory. Assessment forms and a written report are submitted to NBS for further evaluation. The laboratory is asked to respond within 30 days of the date of the exit briefing and provide documentation or certification that the specific deficiencies have been corrected or that specific actions are being taken. Any laboratory applying for initial accreditation may request a delay in responding.

If any deficiencies are noted at laboratories which are currently accredited, such deficiencies must be corrected within 30 days after the exit briefing or the laboratory may face possible suspension, revocation or expiration of its accreditation. When test equipment is identified as out-of-calibration, it must not be used until corrective action has been completed. Any deficiencies noted for corrective action will be subject to thorough review and verification during subsequent assessments.

#### Monitoring Visits

In addition to regularly scheduled assessments, monitoring visits can be made at any time during the accreditation period. Monitoring visits may occur for cause or on a random selection basis. These visits serve to verify reported changes in the laboratory's personnel, facilities, and operations or to explore possible reasons for poor performance in proficiency testing. The scope of a monitoring visit may range from checking a few designated items to a complete review. Failure to cooperate with NVLAP assessors may be grounds for adverse accreditation action. No additional fee is required for the monitoring visit since the cost is already factored into the fees.

#### Proficiency Testing

Proficiency testing is an integral part of the NVLAP accreditation process. While the existence of facilities, equipment, and personnel which satisfy the criteria indicates a laboratory's overall capability to obtain good results, an analysis of actual test results for certain test

methods is also necessary to determine if the overall capability does in fact produce the desired results. A laboratory's failure to participate fully in the conduct of required proficiency testing is grounds for adverse accreditation action.

### Evaluation

Evaluation of a laboratory is conducted at NBS by technical experts chosen for their experience and knowledge of the test methods under evaluation. They review records on each applicant laboratory and base their evaluation on:

- (1) Information provided on the application;
- (2) On-site assessment reports;
- (3) Actions taken by the laboratory to correct deficiencies;
- (4) Results of proficiency testing; and
- (5) Information from any monitoring visits of the laboratory.

If the technical evaluation reveals additional deficiencies, written notification describing them will be made to the laboratory. The laboratory must respond within 30 days of such notification and provide documentation or certification that the specified deficiencies have been corrected. Clarification of some issues may be requested by telephone. All deficiencies must be corrected before accreditation can be granted or renewed.

### Technical Experts

The technical experts (respected peers in their field) used as assessors and evaluators are selected through evaluation of their professional/academic achievements, experience in the field of testing, management awareness, potential for conflict-of-interest, and tact in dealing with people.

Assessors are selected to conduct an on-site assessment of a particular laboratory on the basis of how well their individual experience matches the type of testing to be assessed. The laboratory has the right to appeal the assignment of an assessor and may request an alternate.

Evaluators are selected to provide a second opinion, if necessary, and to review the records including the application, assessment report, deficiencies, corrections to deficiencies, and proficiency test results and, based on this record, to recommend whether accreditation should be granted.

### Administrative Review

When the evaluation has been completed, NBS prepares an administrative recommendation that the laboratory either be granted or denied accreditation. This recommendation is based on a review of the evaluation and other records to ensure that all NVLAP technical, financial, and administrative obligations have been satisfied.

### Accreditation Actions

The Director of the NBS Office of Product Standards Policy makes accreditation decisions.

**Recommended.** When accreditation is recommended, the recommendation forms the basis for granting accreditation. A certificate of accreditation is issued to the laboratory.

**Denial.** In cases where denial is recommended, the laboratory is notified of a proposal to deny accreditation and the reasons for the denial.

**Appeal.** When denial has been proposed, the laboratory may request a hearing, under 5 United States Code (U.S.C.) 556, within 30 days of the date of receipt of the notification. If a hearing is not requested, the denial becomes final upon the expiration of that 30-day period.

**Renewal.** Accreditation is granted annually or biennially with renewal occurring on the same anniversary date every year or every two years.

**Termination.** A laboratory may voluntarily terminate its accreditation by written request at any time. The accreditation certificate must be returned with the request. If a laboratory elects not to renew its accreditation, a notification of such intention should be forwarded to NBS in writing.

**Suspension.** If an accredited laboratory develops problems or deficiencies which are of a temporary nature, its accreditation may be suspended until such time as the deficiencies are resolved.

**Revocation.** In cases where a laboratory is found to have violated the terms of its accreditation, the accreditation can be revoked. The laboratory may, however, be given the option to voluntarily terminate accreditation. The laboratory has 30 days from the date of receipt of notice of proposed revocation in which it may appeal the proposed revocation by requesting a hearing. If a hearing is not requested, the revocation becomes final upon the expiration of that 30-day period. When revocation is final the laboratory must return its certificate of accreditation and cease to reference its NVLAP accreditation on any of its reports, other correspondence, or advertising.

### Public Notification

Accreditation actions are published quarterly. A directory of accredited laboratories is published annually. The directory identifies the name and address of each laboratory, the scope of its accreditation, and the key contact person. The directory is widely distributed nationally and internationally.

Accredited laboratories are encouraged to publicize their accredited status. However, they must do so in such a way as not to imply product certification by NBS. A laboratory may cite its accredited status and use the NVLAP logo on reports, stationary, and in business and trade publications.

## Establishment of New LAPs

Anyone may request a LAP by writing to the Director, NBS, ADMIN A1134, Gaithersburg, MD 20899. The letter must address the following items:

(1) The scope of the LAP in terms of the products or testing services proposed for inclusion.

(2) Specific identification of the applicable standards and test methods including appropriate designations, and the organizations or standards writing bodies having responsibility for them;

(3) A statement of need for the LAP including:

(i) Technical and economic reasons why the LAP would benefit the public interest.

(ii) Evidence of a national need to accredit testing laboratories for the specific scope beyond that served by an existing laboratory

accreditation program in the public or private sector.

(iii) An estimate of the number of laboratories that may seek accreditation.

(iv) An estimate of the number and nature of the users of such laboratories.

(4) A statement of the extent to which you are willing to support necessary developmental aspects of the LAP with funding and personnel.

If the request letter addresses the above items, NBS will publish a *Federal Register* notice of the receipt of a LAP request describing the scope of the requested LAP, and stating that anyone may submit comments on the need for the LAP to NBS. Assuming there is public support for such a LAP, the process of securing resources for its successful development can begin.



*This directory is current as of December 31, 1984*

## ACCREDITED LABORATORIES AND TEST METHODS FOR WHICH THEY ARE ACCREDITED

**NOTE:** This section lists accredited laboratories in ascending order by NVLAP Lab Code Number. Indexes 1, 2, 3, and 4 are lists of laboratories by test method, state, and laboratory accreditation program (LAP) cross-referenced to NVLAP Lab Code Number.

NVLAP LAB CODE 0101

**CERTAINTEED CORPORATION  
INSULATION GROUP, R & D LABORATORY  
1400 Union Meeting Road, Blue Bell, PA 19422  
Dr. W. Francis Olix Phone: 215-341-6713**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C03		California Energy Commission tests for insulating materials: Corrosiveness - Mineral fiber blankets and loose-fill
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/S12		California Energy Commission tests for insulating materials: Bond strength - Spray applied cellulose
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

**NVLAP LAB CODE 0102**

**BUTLER MANUFACTURING COMPANY  
RESEARCH CENTER**

**135th Street and Botts Road, Grandview, MO 64030**

**Marvin K. Snyder Phone: 816-763-3022**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**NVLAP LAB CODE 0103**

**DOW CHEMICAL USA, FOAM PRODUCTS RESEARCH  
PRODUCT EVALUATION GROUP**

**P.O. Box 515, Granville, OH 43023**

**M.J. Ennis Phone: 614-587-4313**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S07	ASTM C273	Shear test; Sandwich construction
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

**NVLAP LAB CODE 0104**

**NAHB RESEARCH FOUNDATION, INC.**

**P.O. Box 1627, Rockville, MD 20850**

**Hugh Angleton Phone: 301-762-4200**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

UNITED STATES TESTING COMPANY, INC.

1415 Park Avenue, Hoboken, NJ 07030  
 Carl B. Yoder Phone: 201-792-2400

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C	Addenda 2 and 3 Attached Cushion Tests

UNITED STATES TESTING COMPANY, INC.

CALIFORNIA DIVISION

5555 Telegraph Road, Los Angeles, CA 90040  
 Bernd Givon Phone: 213-723-7181

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/F01	ASTM E84	Surface Flammability (Carpet)

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

**NVLAP LAB CODE 0107**

**UNITED STATES TESTING COMPANY, INC.  
TULSA DIVISION**

**1341 North 108th East Avenue, Tulsa, OK 74116**

**Fred D. Wampnar**

**Phone: 918-437-8333**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

**NVLAP LAB CODE 0108**

**CERTIFIED TESTING LABORATORIES, INC.**

**1105 Riverbend Drive, P.O. Box 2041, Dalton, GA 30720**

**John H. Frank**

**Phone: 404-226-1400**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF 1-70	Methenamine Pill Test



<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C	Addenda 2 and 3 Attached Cushion Tests

NVLAP LAB CODE 0109

**OWENS-CORNING FIBERGLAS CORPORATION  
TECHNICAL CENTER LABORATORY**

**P.O. Box 415, Route 16, Granville, OH 43023**

**William M. Edmunds**

**Phone: 614-587-7024--For Insulation LAP**

**Ron Moulder**

**Phone: 614-587-7066--For Acoustics LAP**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C01	ASTM C739 (para. 10.7 in 80 version)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C03		California Energy Commission tests for insulating materials: Corrosiveness - Mineral fiber blankets and loose-fill
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber) by D1037
01/D06	ASTM C209 (para. 14 in 72 version) (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber) by D1037
01/D07	ASTM C272	Density; Preformed block insulation
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D24	ASTM C739 (para. 10.5 in 80 version)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/D29		California Energy Commission tests for insulating materials: Installed compressed thickness
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
	(para. 4.8.7 in D version, Amendment 1)	
01/F08	HH-I-515	Smoldering combustion; Cellulosic fiber (loose-fill)
	(para. 4.8.8 in D version, Amendment 1)	
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209	Transverse strength; Board (cellulosic fiber)
	(para. 9 in 72 version)	
01/S04	ASTM C209	Deflection at specified load; Board (cellulosic fiber)
	(para. 10 in 72 version)	
01/S05	ASTM C209	Tensile strength; Parallel to surface; Board (cellulosic fiber)
	(para. 11 in 72 version)	
01/S06	ASTM C209	Tensile strength; Perpendicular to surface
	(para. 12 in 72 version)	
01/S07	ASTM C273	Shear test; Sandwich construction
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02	TAPPI T419	Starch in paper; Qualitative test
01/V03	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	HH-I-515	Fungus; Cellulosic fiber (loose-fill)
	(para. 4.8.6 in D version, Amendment 1)	
08/P01	ASTM C367-78	Strength Properties, Prefabricated Architectural Acoustical Materials
08/P02	ASTM C384-77(84)	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P04	ASTM C522-80	Airflow Resistance of Acoustical Materials
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions
08/P10	ANSI S1.31-80	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (100-10,000 Hz)
08/P13	ANSI S1.32-80	Sound Power Levels, Discrete- Frequency and Narrow-Band Noise Sources in Reverberation Rooms (100-10,000 Hz)
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method



**JIM WALTER RESEARCH CORPORATION**

10301 9th Street North, St. Petersburg, FL 33702

Alan P. Conroy Phone: 813-576-4171

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber) by D1037
01/D06	ASTM C209 (para. 14 in 72 version) (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber) by D1037
01/D07	ASTM C272	Water absorption; Core materials
01/D09	ASTM C303	Density; Preformed block insulation
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P02	ASTM C384-77(84)	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

**DYNATECH R/D COMPANY**

**THERMOPHYSICS LABORATORY**

99 Erie Street, Cambridge, MA 02139

Andre O. Desjarlais Phone: 617-868-8050

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**SOUTHWEST RESEARCH INSTITUTE**  
**DEPARTMENT OF FIRE TECHNOLOGY**  
 6220 Culebra Road, San Antonio, TX 78238  
 Carl A. Hafer Phone: 512-684-5111

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F02	UL 992	Surface Flammability
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

**FACTORY MUTUAL RESEARCH CORPORATION**  
 1151 Boston-Providence Turnpike, Norwood, MA 02062  
 William F. Maroni Phone: 617-762-4300

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

**UNDERWRITERS LABORATORIES INC.**  
 333 Pfingsten Road, Northbrook, IL 60062  
 Steve Mazzoni Phone: 312-272-8800

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C01	ASTM C739 (para. 10.7 in 80 version)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber) by D1037
01/D06	ASTM C209 (para. 14 in 72 version) (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber) by D1037
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D14	ASTM C520	Density; Granular loose-fill
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D24	ASTM C739 (para. 10.5 in 80 version)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F06	ASTM C739 (para. 10.4 in 80 version)	Flame resistance permanency; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02	TAPPI T419	Starch in paper; Qualitative test
01/V03	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F02	UL 992	Surface Flammability
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**NVLAP LAB CODE 0117**

**UNDERWRITERS LABORATORIES INC.  
SANTA CLARA, CALIFORNIA LABORATORY  
1655 Scott Boulevard, Santa Clara, CA 95050  
Douglas Anderson Phone: 408-985-2400**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12



<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737</i>	<i>Section of UL 1482</i>
		<i>5th Edition</i> <i>(March 1, 1982)</i>	<i>2nd Edition</i> <i>(January 24, 1983)</i>
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<b>MOBILE HOME TEST GROUP (04/M00)</b>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<b>ELECTRICAL TEST GROUP (04/E00)</b>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**NVLAP LAB CODE 0119**

**INTEST LABORATORIES, INC.**

**2820 Anthony Lane South, Minneapolis, MN 55418**

**Donald L. Valsvik Phone: 612-781-2603**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P02	ASTM C384-77(84)	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions
08/P11	ANSI S1.31-80	Sound Power Levels, Broad-Band (direct method only)
		Noise Sources in Reverberation Rooms (direct method only)
		(100-10,000 Hz)
08/E04	ANSI S3.19-75	Noise Protection, Hearing Protectors and Earmuffs
08/E13	SAE J192a-75	Exterior Sound Level of Snowmobiles
08/E14	SAE J1161-76	Sound Level Measurement Procedure for Snow Vehicles
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

**NVLAP LAB CODE 0120**

**COMMERCIAL TESTING COMPANY**

**1215 South Hamilton Street, P.O. Box 985, Dalton, GA 30720**

**Jonathan Jackson Phone: 404-278-3935**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/C02	HH-I-515	Corrosiveness; Cellulosic fiber (loose-fill)
	(para. 4.8.5 in D version, Amendment 1)	
01/D25	HH-I-515	Moisture absorption; Cellulosic fiber (loose-fill)
	(para. 4.8.3 in D version, Amendment 1)	
01/D26	HH-I-515	Settled density; Cellulosic fiber (loose-fill)
	(para. 4.8.1 in D version, Amendment 1)	

<i><b>NVLAP Code</b></i>	<i><b>Designation</b></i>	<i><b>Short Title</b></i>
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C	Addenda 2 and 3 Attached Cushion Tests

**NVLAP LAB CODE 0121**

**SPARRELL ENGINEERING RESEARCH CORPORATION**

**Bristol Road, P.O. Box 130, Damariscotta, ME 04543**

**James K. Sparrell**

**Phone: 207-563-3224**

**Accreditation Renewal Date: January 1, 1986**

<i><b>NVLAP Code</b></i>	<i><b>Designation</b></i>	<i><b>Short Title</b></i>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**NVLAP LAB CODE 0122**

**TECHNICAL MICRONICS CONTROL, INC.**

**210 Wynn Drive, P.O. Box 1330, Huntsville, AL 35807**

**Otis Cauthen**

**Phone: 205-837-4430**

**Accreditation Renewal Date: January 1, 1986**

<i><b>NVLAP Code</b></i>	<i><b>Designation</b></i>	<i><b>Short Title</b></i>
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)



<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

**NVLAP LAB CODE 0123**

**MANVILLE CORPORATION, R & D CENTER**

**P.O. Box 5108, Denver, CO 80217**

**Joseph P. Ferraro**

**Phone: 303-978-5553**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber) by D1037
01/D06	ASTM C209 (para. 14 in 72 version) (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber) by D1037
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P02	ASTM C384-77(84)	Impedance and Absorption of Acoustical Materials

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P04	ASTM C522-80	Airflow Resistance of Acoustical Materials
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions

**NVLAP LAB CODE 0124**

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

**Box 89, 960 Central Expressway, Santa Clara, CA 95052  
J.P. Tetreault Phone: 408-727-3535**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**NVLAP LAB CODE 0125**

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

**700 McLaren Road, Fairburn, GA 30213  
Larry Maynard Phone: 404-969-2915**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**NVLAP LAB CODE 0126**

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

**300 Sunshine Road, Kansas City, KS 66115  
C.E. Husmann Phone: 913-281-2811**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**NVLAP LAB CODE 0127**

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

**Box 8, Davis & Shreeve Roads, Barrington, NJ 08007  
Charles Sitka Phone: 609-547-9200**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

P.O. Box 89, Delmar, NY 12054  
Mark P. Arnold Phone: 518-439-9341

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

Case Avenue, Newark, OH 43055  
P. D. Shull Phone: 614-345-3441

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**OWENS-CORNING FIBERGLAS CORPORATION  
PLANT LABORATORY**

P.O. Box 837, I-35 East, Waxahachie, TX 75165  
Mark Kwasowski Phone: 214-937-1340

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**THE H. C. NUTTING COMPANY**  
4120 Airport Road, P.O. Box C, Cincinnati, OH 45226  
James T. Larbes Phone: 513-321-5816

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**THE WALT KEELER COMPANY, INC.**  
**826 East Lincoln Street, P.O. Box 197, Wichita, KS 67201**  
**Kelly B. Callison Phone: 316-265-0615**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**AGUIRRE ENGINEERS, INC.**  
**13276 East Fremont Place, P.O. Box 3014, Englewood, CO 80155**  
**Jeffrey C. Olson Phone: 303-799-8378**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**CONTRACTORS SUPPLY CORPORATION OF WEST VIRGINIA, INC.**  
**P.O. Box 6587, 24th & Water, Wheeling, WV 26003**  
**Anthony A. Gulo Phone: 304-232-1048**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

**CONSTRUCTION TECHNOLOGY LABORATORIES**  
**A DIVISION OF PORTLAND CEMENT ASSOCIATION**  
**5420 Old Orchard Road, Skokie, IL 60077**  
**Ronald G. Burg Phone: 312-965-7500**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete



<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0139

**AMERICAN CARPET LABORATORIES, INC.**

111 West Nashville Street, P.O. Box 357, Ringgold, GA 30736

Michael D. Connell Phone: 404-935-5672

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test
03/B02	UM 44C	Addenda 2 and 3 Attached Cushion Tests

NVLAP LAB CODE 0141

**GENSTAR STONE PRODUCTS COMPANY**

**WHITE MARSH TECHNICAL CENTER**

10300 Pulaski Highway, White Marsh, MD 21162

Robert L. Chester Phone: 301-628-4000

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0142

**GEOSCIENCE LTD.**

410 South Cedros Avenue, Solana Beach, CA 92075

Heinz F. Poppendiek Phone: 619-755-9396

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D08	ASTM C302	Density; Preformed pipe insulation
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box

**NVLAP LAB CODE 0143**

**KELSO INDUSTRIES, INC.**  
**QUALITY CONTROL LABORATORY**  
P.O. Box 659, Galveston, TX 77553  
Chris G. Slate Phone: 713-744-5341

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**NVLAP LAB CODE 0146**

**AMERICAN TESTING LABORATORIES, INC.**  
Box 4014, 784 Flory Mill Road, Lancaster, PA 17604  
John S. Kassees Phone: 717-569-0488

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**NVLAP LAB CODE 0149**

**E & B CARPET MILLS**  
1020 Riverbend Drive, P.O. Box 2047, Dalton, GA 30720  
Robert H. Davis Phone: 404-278-3197

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test



**HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION**

P.O. Box 2789, 1825 Faraday Drive, Reston, VA 22090

William J. Groah

Phone: 703-435-2900

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

**THE ARUNDEL CORPORATION****GREENSPRING LABORATORY**

6806 Greenspring Avenue, Baltimore, MD 21209

David Wherley

Phone: 301-296-6400

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**BIGELOW-SANFORD, INC.****GEORGIA RUG MILL**

Lyerly Street, Summerville, GA 30747

Van A. Pullen

Phone: 404-857-2421

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test
03/B01	UM 44C	Addendum 3 Attached Cushion Tests

**CHISHOLM TRAIL TESTING AND ENGINEERING COMPANY, INC.**

302 South Miller Street, Decatur, TX 76234  
James F. Rosendahl Phone: 817-627-5216

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test

NVLAP LAB CODE 0163

**GALAXY CARPET MILLS, INC.  
GALAXY TESTING LABORATORY**

P.O. Box 800, Industrial Blvd., Chatsworth, GA 30705  
Lou Childers Phone: 404-695-9611

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test
03/B02	UM 44C	Addenda 2 and 3 Attached Cushion Tests

NVLAP LAB CODE 0166

**INDEPENDENT TEXTILE TESTING SERVICE, INC.**

P.O. Box 1948, 1503 Murray Avenue, Dalton, GA 30720  
Cornelius C. Setter Phone: 404-278-3013

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C	Addenda 2 and 3 Attached Cushion Tests

NVLAP LAB CODE 0173

**STS CONSULTANTS, LTD.  
RALEIGH NC OFFICE**

P.O. Box 12015, Research Triangle Park, NC 27709  
Wayne V. Wilkinson Phone: 919-787-5124

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0175

**THE UPJOHN COMPANY  
DONALD S. GILMORE RESEARCH LABORATORIES**

410 Sackett Point Road, North Haven, CT 06473  
Herbert G. Nadeau Phone: 203-281-2762

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**W. R. GRACE & COMPANY  
CONSTRUCTION PRODUCTS DIVISION  
62 Whittemore Avenue, Cambridge, MA 02140  
Stephen A. Valle Phone: 617-876-1400**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**ATLANTIC TESTING LABS, LTD.  
CICERO DIVISION  
P.O. Box 356, Rte 31 at Rte 81, Cicero, NY 13039  
Robert van der Horst Phone: 315-699-5281**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**BIGELOW-SANFORD, INC.  
TECHNICAL SERVICES  
P.O. Box 3089, Greenville, SC 29602  
Hamir D. Merchant Phone: 803-299-2630**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF 1-70	Methenamine Pill Test



<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B01	UM 44C	Addendum 3 Attached Cushion Tests

NVLAP LAB CODE 0183

**A & H/FLOOD ENGINEERING**  
**4421 Harrison Street, Hillside, IL 60162**  
**Paul E. Flood Phone: 312-449-0500**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0187

**C. H. MASLAND AND SONS**  
**P.O. Box 40, Carlisle, PA 17013**  
**David A. Boyles Phone: 717-249-1866**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test

NVLAP LAB CODE 0188

**TWIN CITY TESTING AND ENGINEERING LABORATORY, INC.**  
**662 Cromwell Avenue, St. Paul, MN 55114**  
**Richard Stehly Phone: 612-645-3601**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T04	ASTM C236	Thermal conductance; Guarded hot box
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0189

**CENTRAL READY-MIXED CONCRETE  
RESEARCH & TECHNICAL CENTER**  
4350 South 13th Street, Milwaukee, WI 53221  
Christine B. Madderom Phone: 414-282-4200

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

NVLAP LAB CODE 0190

**CORONET CARPETS  
CORONET INDUSTRIES**  
P.O. Box 1248, Cleveland Drive, Dalton, GA 30720  
Winfred L. Jones Phone: 404-259-4511

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test

NVLAP LAB CODE 0191

**STS CONSULTANTS, LTD.**  
111 Pfingsten Road, Northbrook, IL 60062  
Michael T. Russell Phone: 312-272-6520

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0192

**SMITH-EMERY COMPANY**  
**781 East Washington Boulevard, Los Angeles, CA 90021**  
**George E. Battey, Jr. Phone: 213-749-3411**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0193

**SHAW INDUSTRIES, INC.**  
**Plant #4, S. Hamilton St. Ext., P.O. Drawer 2128, Dalton, GA 30720**  
**Carey Mitchell Phone: 404-278-3812**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test

NVLAP LAB CODE 0195

**GARCO TESTING LABORATORIES**  
**532 West 3560 South, Salt Lake City, UT 84107**  
**Douglas L. Watson Phone: 801-266-4498**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group was divided into two subgroups: the control group and the control group. The experimental group was divided into two subgroups: the experimental group and the experimental group. The control group was divided into two subgroups: the control group and the control group. The experimental group was divided into two subgroups: the experimental group and the experimental group.

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UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASH. D.C. 20250

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**PITTSBURGH TESTING LABORATORY**

850 Poplar Street, Pittsburgh, PA 15220  
 William H. Levelius Phone: 412-922-4000

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0203

**CAL MAT CO.****CONROCK DIVISION TESTING LABORATORY**

P.O. Box 2950, Terminal Annex, Los Angeles, CA 90051  
 James Neal Van Nest Phone: 213-258-2777

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0205

**WEST VIRGINIA DEPT OF HIGHWAYS**  
**MATERIALS CONTROL, SOIL & TESTING**

312 Michigan Avenue, Charleston, WV 25311  
 Thomas M. Dugan Phone: 304-348-3160

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**R. W. SIDLEY, INC.**  
**QUALITY CONTROL LABORATORY**  
 6900 Madison Road, Thompson, OH 44086  
 Lawrence McCune Phone: 216-298-3232

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**GULF COAST TESTING LABORATORY, INC.**  
 1205 North Tancahua Street, Corpus Christi, TX 78401  
 Doyne Reynolds Phone: 512-882-5411

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**INSTA-FOAM PRODUCTS, INC.**  
 1500 Cedarwood Drive, Joliet, IL 60435  
 Kenneth A. Pugh Phone: 815-741-6851

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

**CONSTRUCTION MATERIALS CONSULTANTS, INC.**

1000 West Fillmore Street, Colorado Springs, CO 80907

Ivan A. Vanaken

Phone: 303-632-2588

Accreditation Renewal Date: July 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**UNITED STATES GYPSUM COMPANY, RESEARCH CENTER**

700 North Highway 45, Libertyville, IL 60048

William F. Porter

Phone: 312-362-9797

Accreditation Renewal Date: July 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**APACHE BUILDING PRODUCTS COMPANY**

2025 East Linden Avenue, Linden, NJ 07036

Dennis W. Rosato

Phone: 201-486-6723

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

**STRATTON LABORATORIES**

Highway 61, South, P.O. Box 1007, Cartersville, GA 30120

Jack R. Kilgore

Phone: 404-382-9350

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

**SALEM CARPET LABORATORY**  
**P.O. Box 10, Chatsworth, GA 30736**  
**Michael A. Corbin Phone: 404-935-2241**

**Accreditation Renewal Date: July 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction
		Pile Weight - Uncoated (Section 8)
		Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11)
		Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

**PFS CORPORATION**  
**2402 Daniels Street, Madison, WI 53704**  
**Ed Starostovic Phone: 608-221-3361**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40



**ARNOLD GREENE TESTING LABORATORIES**  
**A DIVISION OF CONAM INSPECTION**  
 2 Millbury Street, Auburn, MA 01501A  
 Robert J. Halliday Phone: 617-235-7330

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	<b>MOBILE HOME TEST GROUP (04/M00)</b>		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	<b>ELECTRICAL TEST GROUP (04/E00)</b>		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**NVLAP LAB CODE 0226**

**WISS, JANNEY, ELSTNER AND ASSOCIATES, INC.**  
 330 Pfingsten Road, Northbrook, IL 60062  
 Jerry G. Stockbridge Phone: 312-272-7400

**Accreditation Renewal Date: July 1, 1984**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/T04	ASTM C236	Thermal conductance; Guarded hot box

**NVLAP LAB CODE 0227**

**RIVERBANK ACOUSTICAL LABORATORIES**  
 P.O.Box 189, 1512 Batavia Avenue, Geneva, IL 60134  
 John W. Kopec Phone: 312-232-0104

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P07	ASTM E492-82	Impact Sound Transmission Through Floor-Ceiling Assemblies
08/P10	ANSI S1.31-80	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (100-10,000 Hz)
08/P17	ISO 3741-75	Sound Power Levels, Broad-Band Sources in Reverberation Rooms (100-10,000 Hz)
08/E01	ANSI B71.1-80 (para. 9 and 21)	Sound Level Tests; Power Lawn Mowers, Lawn and Garden Tractors and Lawn Tractors

**NVLAP LAB CODE 0228**

**ARMSTRONG WORLD INDUSTRIES  
TECHNICAL CENTER, ACOUSTICS LABORATORY  
2500 Columbia Avenue, P.O.Box 3511, Lancaster, PA 17604  
G. Robert Spalding      Phone: 717-397-0611**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P07	ANSI/ASTM E492-82	Impact Sound Transmission Through Floor-Ceiling Assemblies

**NVLAP LAB CODE 0229**

**GOLD BOND BUILDING PRODUCTS  
A NATIONAL GYPSUM DIVISION, RESEARCH CENTER  
1650 Military Road, Buffalo, NY 14217  
Joseph Volk      Phone: 716-873-9750**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

**NVLAP LAB CODE 0230**

**VIRGINIA CONCRETE LABORATORY  
6555 Edsall Road, Box 666, Springfield, VA 22150  
Richard A. Buckelew      Phone: 703-354-6111**

**Accreditation Renewal Date: April 1, 1984**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**RITCHIE LABORATORIES**

1820 North Mosley, P.O. Box 4048, Wichita, KS 67204

Donald J. Brockel

Phone: 316-263-9937

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**STS CONSULTANTS, LTD.****FAIRFAX VA OFFICE**

2929-C Eskridge Road, Fairfax, VA 22031

Henry L. Lucas

Phone: 703-698-5300

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

**PACIFIC INSPECTION AND RESEARCH LABORATORY, INC.**

4076 148th Avenue North East, Redmond, WA 98052

Ronald J. Weisel

Phone: 206-881-7668

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737</i>	<i>Section of UL 1482</i>
		<i>5th Edition</i> <i>(March 1, 1982)</i>	<i>2nd Edition</i> <i>(January 24, 1983)</i>
	<b>ELECTRICAL TEST GROUP (04/E00)</b>		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**NVLAP LAB CODE 0237**

**PITTSBURGH TESTING LABORATORY  
SYRACUSE NY PLANT LABORATORY**  
6159 East Mallory Road, Syracuse, NY 13057  
W.J. Peters Phone: 315-437-7043

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**NVLAP LAB CODE 0239**

**HUFCOR ACOUSTICAL LABORATORY  
HOUGH MANUFACTURING CORP.**  
P.O. Box 591, 1205 Norwood Road, Janesville, WI 53547  
Stanley Kowalczyk Phone: 608-756-1241

**Accreditation Renewal Date: October 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions

**NVLAP LAB CODE 0240**

**OMNI ENVIRONMENTAL SERVICES, INC.  
SOLID FUELS TESTING LAB**  
10950 SW 5th Street, Suite 245, Beaverton, OR 97005  
Raymond W. Downey Phone: 503-643-3755

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737</i>	<i>Section of UL 1482</i>
		<i>5th Edition</i> <i>(March 1, 1982)</i>	<i>2nd Edition</i> <i>(January 24, 1983)</i>
	<b>PHYSICAL/FIRE TEST GROUP (04/F00)</b>		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11



<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0241

**WESTERN STATES TESTING DIVISION OF  
U.S. TESTING COMPANY, INC.**

3536 Oakdale Road, Modesto, CA 95355  
Harold Stevens Phone: 209-527-2271

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0243

**CUSTOM COATING, INC.**

204 West Industrial Blvd., Dalton, GA 30720  
Mike Calhoun Phone: 404-277-3778

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F03	DoC FF 1-70	Methenamine Pill Test

**NORTHWEST TESTING LABORATORIES, INC.**

P.O. Box 17126, Portland, OR 97217

Don Cave Phone: 503-288-7086

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

**R. F. GEISSER & ASSOCIATES, INC.**

120 Pershing Street, P.O. Box 4526, East Providence, RI 02914

Russell F. Geisser Phone: 401-438-7320

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737</i>	<i>Section of UL 1482</i>
		<i>5th Edition</i> <i>(March 1, 1982)</i>	<i>2nd Edition</i> <i>(January 24, 1983)</i>
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0246

### STOVE TESTING LAB

2721 North Hayden Island Drive, Portland, OR 97217  
Sharon Conrad Phone: 503-283-9711

Accreditation Renewal Date: January 1, 1986

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737</i>	<i>Section of UL 1482</i>
		<i>5th Edition</i> <i>(March 1, 1982)</i>	<i>2nd Edition</i> <i>(January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0247

### HOLLYTEX CARPET MILLS

505 N.E. Seventh Street, Anadarko, OK 73005  
Chet Link Phone: 405-247-6641

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/C02	AATCC 8	Colorfastness to Crocking

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method	
	Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF 1-70	Methenamine Pill Test

**NVLAP LAB CODE 0248**

**KNAUF FIBER GLASS RESEARCH LABORATORIES**

**240 Elizabeth Street, Shelbyville, IN 46176**  
**Kerry Van Arsdel Phone: 317-398-4434**

**Accreditation Renewal Date: April 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

**NVLAP LAB CODE 0249**

**WARNOCK HERSEY INTERNATIONAL, INC.**

**8612 Fairway Place, Middleton, WI 53562**  
**James J. Husom Phone: 608-836-4400**

**Accreditation Renewal Date: January 1, 1986**

<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737 5th Edition (March 1, 1982)</i>	<i>Section of UL 1482 2nd Edition (January 24, 1983)</i>
	PHYSICAL/FIRE TEST GROUP (04/F00)		
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
	MOBILE HOME TEST GROUP (04/M00)		
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04/E00)		
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34



<i>NVLAP Code</i>	<i>Short Title</i>	<i>Section of UL 737</i>	<i>Section of UL 1482</i>
		<i>5th Edition</i> <i>(March 1, 1982)</i>	<i>2nd Edition</i> <i>(January 24, 1983)</i>
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0250

**W. R. GRACE & COMPANY**  
**THERMAL PRODUCTS LABORATORY**  
62 Whittemore Avenue, Cambridge, MA 02140  
Gregory Derderian Phone: 617-876-1400

Accreditation Renewal Date: April 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/D09	ASTM C303	Density; Preformed block insulation
01/D14	ASTM C520	Density; Granular loose-fill
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0251

**STATE OF CALIFORNIA**  
**BUREAU OF HOME FURNISHINGS**  
3485 Orange Grove Avenue, North Highlands, CA 95660  
John A. McCormack Phone: 916-920-6952

Accreditation Renewal Date: July 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)

NVLAP LAB CODE 0252

**D/L LABORATORIES**  
116 East 16th Street, New York, NY 10003  
Saul Spindel Phone: 212-777-4410

Accreditation Renewal Date: October 1, 1985

Paints and Related Coatings and Materials

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
Measurements of Intrinsic Physical Properties		
09/A01	ASTM D56	Flash Point by Tag Closed Tester
09/A02	ASTM D93	Flash Point by Pensky-Martens Closed Tester, Method A & B
09/A04	ASTM D185	Coarse Particles in Pigments, Pastes and Paints
09/A05	ASTM D281	Oil Absorption of Pigments by Spatula Rub-Out
09/A07	ASTM D523	Specular Gloss
09/A08	ASTM D562	Consistency of Paints Using the Stormer Viscometer Procedure A & B

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
09/A10	ASTM D1186	Dry Film Thickness of Non-magnetic Coatings Applied to a Ferrous Base, Method A & B
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/A13	ASTM D1212	Wet Film Thickness of Organic Coatings, Method A
09/A14	ASTM D1296	Odor of Volatile Solvents and Diluents
09/A15	ASTM D1310	Flash-Point of Liquids by Tag Open-Cup Apparatus
09/A16	ASTM D1400	Dry Film Thickness of Non-conductive Coatings Applied to a Nonferrous Metal Base
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A18	ASTM D1544	Color of Transparent Liquids (Gardner Color Scale)
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of Opaque Materials
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester Method A & B
09/A22	ASTM D3363	Film Hardness by Pencil Test
09/A25	ASTM D4212	Viscosity by Dip-Type Viscosity Cups
09/A26	ASTM E97	45- deg, 0-deg Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry
09/A28	ASTM E313	Indexes of Whiteness and Yellowness of Near-White Opaque Materials
Measurements of Performance and Performance Change		
09/B01	ASTM D279	Bleeding of Pigments, Method A & B
09/B02	ASTM D332	Tinting Strength of White Pigments, Method A
09/B03	ASTM D344	Relative Dry Hiding Power of Paints
09/B04	ASTM D610	Rusting on Painted Steel Surfaces
09/B05	ASTM D659	Chalking of Exterior Paints
09/B06	ASTM D660	Checking of Exterior Paints
09/B07	ASTM D661	Cracking of Exterior Paints
09/B08	ASTM D662	Erosion of Exterior Paints
09/B09	ASTM D711	No-Pick-Up Time of Traffic Paint
09/B10	ASTM D714	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B12	ASTM D821	Abrasion, Erosion or a Combination of Both in Road Service Tests of Traffic Paints
09/B13	ASTM D868	Bleeding of Traffic Paint
09/B14	ASTM D869	Settling of Traffic Paint
09/B15	ASTM D870	Water Immersion Test of Organic Coatings on Steel
09/B16	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester, Method A & B
09/B18	ASTM D969	Bleeding of Traffic Paint
09/B19	ASTM D1308	Effect of Household Chemicals on Clear and
09/B20	ASTM D1309	Settling Properties of Traffic Paint During
09/B23	ASTM D1640	Drying, Curing, or Film Formation of Organic
09/B24	ASTM D1737	Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus
09/B25	ASTM D2197	Adhesion of Organic Coatings, Method A
09/B26	ASTM D2243	Freeze-Thaw Resistance of Latex and Emulsion Paints
09/B27	ASTM D2248	Detergent Resistance of Organic Finishes
09/B29	ASTM D2486	Scrub Resistance of Interior Latex Flat Wall Paints
09/B30	ASTM D2801	Leveling Characteristics of Paints by Draw-Down Method
09/B31	ASTM D2805	Hiding Power of Paints
09/B32	ASTM D3273	Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
09/B33	ASTM D3274	Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation
09/B34	ASTM D3450	Washability Properties of Interior Architectural Coatings

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
09/B35	ASTM D3456	Susceptability of Paint Films to Microbiological Attack
09/B37	ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
09/B38	ASTM D4062	Leveling of Paints by Draw-Down Method
09/B39	ASTM D4213	Wet Abrasion Resistance of Interior Paint by Weight Loss
09/B40	ASTM D4214	Chalking of Exterior Paint Films, Method A, B, C, D & E
09/B41	Fed. Std. 141	Sag Test (Multinotch Blade) Method 4494
09/B42	Fed. Std. 141	Drying Time Method 4061
Measurement of Chemical Properties and Compositions		
09/C09	ASTM D1259	Nonvolatile Content of Resin Solutions, Method A & B
09/C12	ASTM D1364	Water in Volatile Solvents (Fischer Reagent Titration Method)
09/C26	ASTM D2369	Volatile Content of Paints, Procedure A & B
09/C27	ASTM D2371	Pigment Content of Solvent-Type Paints
09/C28	ASTM D2697	Volume Nonvolatile Matter in Clear or Pigmented Coatings
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by High-Speed Centrifuging
09/C30	ASTM D2832	Nonvolatile Content of Paint and Paint Materials
09/C37	ASTM D3723	Pigment Content of Water-Emulsion Paints by Low-Temperature Ashing
09/C39	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings
09/C40	ASTM D4017	Water in Paints and Paint Materials by Karl Fischer Method
Test Sample Conditioning and Preparation		
09/D01	ASTM B117	Salt Spray (Fog) Testing
09/D02	ASTM D609	Preparation of Steel Panels for Testing Paints Varnish, Lacquer, and Related Products, Method A, B, C, & D
09/D03	ASTM D822	Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Testing Paint, Varnish, Lacquer, and Related Products
09/D04	ASTM D823	Producing Films of Uniform Thickness of Paint Varnish, Lacquer, and Related Products on Test Panels, Method B & D
09/D05	ASTM D1006	Exterior Exposure Tests of Paints on Wood
09/D06	ASTM D1014	Exterior Exposure Tests of Paints on Steel, Method A, B, D, E, & F
09/D10	ASTM D2247	Coated Metal Specimens at 100% Relative Humidity
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/D13	ASTM D3924	Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
09/D14	ASTM G23	Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials, Method 1, 2, 3, & 4
09/D16	ASTM G53	Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

NVLAP LAB CODE 0253

**GIFFORD-HILL AND COMPANY, INC.**  
**TECHNICAL SERVICES DIVISION LABORATORY**  
240 Singleton Blvd., P.O. Box 47127, Dallas, TX 75247  
K. Stuart Pryor, II Phone: 214-651-0066

Accreditation Renewal Date: October 1, 1985

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method



<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

**NVLAP LAB CODE 0254**

**CHEMRAY COATINGS CORP.**

**150 Lincoln Blvd., Middlesex, NJ 08846**

**Frederick W. Armstrong, Jr. Phone: 201-469-1110**

**Accreditation Renewal Date: October 1, 1985**

**Paints and Related Coatings and Materials**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
<b>Measurements of Intrinsic Physical Properties</b>		
09/A02	ASTM D93	Flash Point by Pensky-Martens Closed Tester, Method A & B
09/A03	ASTM D153	Specific Gravity of Pigments
09/A04	ASTM D185	Coarse Particles in Pigments, Pastes and Paints
09/A05	ASTM D281	Oil Absorption of Pigments by Spatula Rub-Out
09/A07	ASTM D523	Specular Gloss
09/A08	ASTM D562	Consistency of Paints Using the Stormer Viscometer Procedure A & B
09/A09	ASTM D1005	Dry Film Thickness of Organic Coatings
09/A10	ASTM D1186	Dry Film Thickness of Non-magnetic Coatings Applied to a Ferrous Base, Method A & B
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/A13	ASTM D1212	Wet Film Thickness of Organic Coatings, Method A
09/A14	ASTM D1296	Odor of Volatile Solvents and Diluents
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A18	ASTM D1544	Color of Transparent Liquids (Gardner Color Scale)
09/A19	ASTM D1729	Visual Evaluation of Color Differences of Opaque Materials
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of Opaque Materials
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester, Method A & B
09/A22	ASTM D3363	Film Hardness by Pencil Test
09/A25	ASTM D4212	Viscosity by Dip-Type Viscosity Cups
09/A26	ASTM E97	45- deg, 0-deg Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry
09/A27	ASTM E308	Spectrophotometry and Description of Color in CIE 1931 System
09/A28	ASTM E313	Indexes of Whiteness and Yellowness of Near-White Opaque Materials

**Measurements of Performance and Performance Change**

09/B02	ASTM D332	Tinting Strength of White Pigments, Method A
09/B03	ASTM D344	Relative Dry Hiding Power of Paints
09/B05	ASTM D659	Chalking of Exterior Paints
09/B09	ASTM D711	No-Pick-Up Time of Traffic Paint
09/B10	ASTM D714	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B13	ASTM D868	Bleeding of Traffic Paint
09/B14	ASTM D869	Settling of Traffic Paint
09/B15	ASTM D870	Water Immersion Test of Organic Coatings on Steel
09/B16	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester, Method A & B
09/B18	ASTM D969	Bleeding of Traffic Paint
09/B20	ASTM D1309	Settling Properties of Traffic Paint During
09/B23	ASTM D1640	Drying, Curing, or Film Formation of Organic



<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
09/B24	ASTM D1737	Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus
09/B25	ASTM D2197	Adhesion of Organic Coatings, Method A
09/B26	ASTM D2243	Freeze-Thaw Resistance of Latex and Emulsion Paints
09/B29	ASTM D2486	Scrub Resistance of Interior Latex Flat Wall Paints
09/B30	ASTM D2801	Leveling Characteristics of Paints by Draw-Down Method
09/B31	ASTM D2805	Hiding Power of Paints
09/B34	ASTM D3450	Washability Properties of Interior Architectural Coatings
09/B38	ASTM D4062	Leveling of Paints by Draw-Down Method
09/B41	Fed. Std. 141	Sag Test (Multinotch Blade) Method 4494
09/B42	Fed. Std. 141	Drying Time Method 4061
Measurement of Chemical Properties and Compositions		
09/C01	ASTM D34	Chemical Analysis of White Pigments
09/C02	ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
09/C04	ASTM D563	Phthalic Anhydride Content of Alkyd Resins and Resin Solutions
09/C06	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/C07	ASTM D1133	Kauri-Butanol Value of Hydro-carbon Solvents
09/C08	ASTM D1208	Common Properties of Certain Pigments
09/C09	ASTM D1259	Nonvolatile Content of Resin Solutions, Method A & B
09/C10	ASTM D1306	Phthalic Anhydride Content of Alkyd Resins and Esters Containing Other Dibasic Acids (Gravimetric)
09/C11	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer and Related Products
09/C12	ASTM D1364	Water in Volatile Solvents (Fischer Reagent Titration Method)
09/C13	ASTM D1394	Chemical Analysis of White Titanium Pigments
09/C14	ASTM D1397	Unsaponifiable Matter in Alkyd Resins and Resins Solutions
09/C15	ASTM D1398	Fatty Acid Content of Alkyd Resins and Alkyd Resin Solutions, Method A & B
09/C17	ASTM D1467	Fatty Acids Used in Protective Coatings
09/C19	ASTM D1541	Total Iodine Value of Drying Oils and Their Derivatives
09/C21	ASTM D1639	Acid Value of Organic Coating Materials
09/C22	ASTM D1644	Nonvolatile Content of Varnishes, Method A & B
09/C26	ASTM D2369	Volatile Content of Paints, Procedure A & B
09/C28	ASTM D2697	Volume Nonvolatile Matter in Clear or Pigmented Coatings
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by High-Speed Centrifuging
09/C30	ASTM D2832	Nonvolatile Content of Paint and Paint Materials
09/C31	ASTM D3009	Composition of Turpentine by Gas Chromatography
09/C32	ASTM D3271	Direct Injection of Solvent-Base Paints into a Gas Chromatograph for Solvent Analysis
09/C33	ASTM D3272	Vacuum Distillation of Solvents from Solvent-Base Paints for Analysis
09/C34	ASTM D3335	Low Concentrations of Lead, Cadmium, and Cobalt in Paint by Atomic Absorption Spectroscopy
09/C39	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings
Test Sample Conditioning and Preparation		
09/D01	ASTM B117	Salt Spray (Fog) Testing
09/D02	ASTM D609	Preparation of Steel Panels for Testing Paints Varnish, Lacquer, and Related Products, Method A, B, C, & D
09/D03	ASTM D822	Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Testing Paint, Varnish, Lacquer, and Related Products
09/D04	ASTM D823	Producing Films of Uniform Thickness of Paint Varnish, Lacquer, and Related Products on Test Panels, Method B, C, & D
09/D08	ASTM D1730	Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting, Type A, B, C, & D

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
09/D09	ASTM D1734	Making and Preparing Concrete and Masonry Panels for Testing Paint Finishes
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/D13	ASTM D3924	Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
09/D14	ASTM G23	Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials, Method 1, 2, 3, & 4
09/D16	ASTM G53	Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

**NVLAP LAB CODE 0255**

**UNDERWRITERS LABORATORIES INC.**

1285 Walt Whitman Road, Melville, NY 11747

R. W. Miller Phone: 516-271-6200

**Accreditation Renewal Date: October 1, 1985**

<i>NVLAP Code</i>	<i>Designation</i>	<i>Short Title</i>
03/F03	DoC FF 1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

**NVLAP LAB CODE 0501**

**BALTIMORE GAS & ELECTRIC COMPANY, CALVERT CLIFFS NUCLEAR POWER PLANT  
NUCLEAR POWER DEPARTMENT, DOSIMETRY UNIT  
RADIATION SAFETY SECTION**

Lusby, MD 20657

Eugene T. Reimer Phone: 301-269-4716

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

**NVLAP LAB CODE 0503**

**MALLINCKRODT DIAGNOSTICS, INC.**

2703 Wagner Place, Maryland Heights, MO 63043

Mark Doruff Phone: 314-344-3981

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic readers model 2000B and 2000D.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD model 100 for ANSI-N13.11 category VII.

**NAVAL MEDICAL COMMAND  
NATIONAL CAPITAL REGION  
RADIATION SAFETY DEPARTMENT  
Bethesda, MD 20814  
Eric E. Kearsley Phone: 202-295-5414**

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Harshaw Automatic reader model 2271 and Manual film processing using a Macbeth densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD Albedo (1 TLD 600, 1 TLD 700) for ANSI-N13.11 Categories II, IV, VIII.

Film Badge (Kodak Type 3) for ANSI-N13.11 Categories II, III, IV, V, VI, VII.

**SOUTHERN CALIFORNIA EDISON  
SAN ONOFRE NUCLEAR GENERATING STATION  
P.O. Box 128, San Clemente, CA 92672  
Kathryn H. Swoope Phone: 714-492-7700**

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802-AS2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
NUCLEAR RADIATION ASSESSMENT DIVISION  
P.O. Box 15027, Las Vegas, NV 89114  
Jaci L. Hopper Phone: 702-798-2320**

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD Model TL-200 for ANSI-N13.11 categories II, IV.

**NEW YORK POWER AUTHORITY  
INDIAN POINT UNIT NO. 3 NUCLEAR POWER PLANT  
P.O. Box 215, Buchanan, NY 10511  
Thomas Labenski Phone: 914-739-8200**

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710B and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD806AQ for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

**NAVAL RESEARCH LABORATORY  
Code 6073, Washington, DC 20375  
Kirk J. King Phone: 202-767-2232**

**Accreditation Renewal Date: January 1, 1987**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

NRL Radiation Badge for ANSI-N13.11 categories II, III, IV, VI, VIII.

**GENERAL PUBLIC UTILITIES NUCLEAR CORPORATION  
DIVISION OF RADIOLOGICAL & ENVIRONMENTAL CONTROLS  
Route 441 South, P.O. Box 480, Middletown, PA 17057  
O. Ronald Perry Phone: 717-948-8595**

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802-2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, and Panasonic TLD model UD802-2N for ANSI-N13.11 categories IV, VIII.



**NEW YORK POWER AUTHORITY  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT**

P.O. Box 41, Lycoming, NY 13093  
Dr. David A. Dooley Phone: 315-342-3840

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD801 for ANSI-N13.11 categories II, IV, VI, VII.

NVLAP LAB CODE 0512

**RADIATION DETECTION COMPANY**

162 Wolfe Road, P.O. Box 1414, Sunnyvale, CA 94088  
Richard H. Holden Phone: 408-735-8700

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) modified CON RAD readers; (2) Teledyne 7100 reader; (3) Teledyne 7300 reader; (4) Harshaw 3000 reader; (5) Victoreen 2800 reader; (6) by manual film processing and reading on a Macbeth TD502 densitometer; or (7) Tracketch, NTA manual optical readers.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

<i>Designation</i>	<i>Process</i>	<i>ANSI N13.11</i>	<i>Categories</i>
Hi Energy	TLD	1	III, IV
Beta	TLD	1,3*	V, VII
Lo Energy	TLD	1,3*	I, III, VI
TLD	Albedo	3*,6	VIII
Film	XBG	6	I, II, III, IV, V, VI, VII
Film	XBGN	6,7	VIII
Neutron	Tracketch	7	VIII

\* Processes listed above 2, 4, and 5 are considered functionally acceptable as substitutes which can be used in lieu of process 3 as listed above.

NVLAP LAB CODE 0515

**EBERLINE SERVICES DIVISION  
DOSIMETRY DEPARTMENT**

P.O. Box 2108, Santa Fe, NM 87501  
Nels Johnson Phone: 505-345-9931

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Eberline Manual reader TLR-6.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Eberline TLD (2 or 3 Harshaw TLD 100 chips) for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

**CAROLINA POWER & LIGHT COMPANY  
HARRIS ENERGY & ENVIRONMENTAL CENTER**

Route 1, Box 327, New Hill, NC 27562  
Stephen A. Browne Phone: 919-362-3212

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802AQ for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

The following sites are included in the accreditation as sub-facilities of the above listed main facility. These sub-facilities are accredited by virtue of using identical equipment and procedures as indicated above.

Robinson Nuclear Plant, Hartsville, South Carolina Brunswick Nuclear Plant, Southport, South Carolina

**NVLAP LAB CODE 0518**

**R.S. LANDAUER JR. & COMPANY**

Glenwood Science Park, 2 Science Park, Glenwood, IL 60425  
Craig Yoder Phone: 312-755-7000

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) automatic film reader Tech/Ops model 1; (2) Harshaw Atlas Hotgas reader; (3) Harshaw 2271 reader; (4) NTA/Polycarbonate /CR-39 manual optical readers; or (5) manual densitometers X-Rite, Tech/Ops model 301, Macbeth model TD504.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

<i>Landauer designation</i>	<i>Film Process</i>	<i>ANSI N13.11</i>	<i>Category</i>
G-Film	"GARDRAY"	1,5	I, II, III, IV, V, VI, VII
P-G	badge plus NTA	1,4,5	VIII
A-G	badge plus polycarbonate	1,4	VIII
TLD			
L-4 chip	"GARDRAY"	2	I, II, III, IV, V, VI, VII
D-3 Harshaw	700 chips	3	II, IV, V, VII
I-Neutrak	ER	3,4	VIII

The facility is accredited to process the following dosimeters which have been deemed functionally acceptable by virtue of using identical techniques and equipment to process combinations of elements demonstrated above.

<i>Landauer designation</i>	<i>Film Process</i>	<i>ANSI N13.11</i>	<i>Category</i>
B-G badge	plus CR-39	1,4,5	I through VIII
C-G badge	plus CR-39 and Cadmium	1,4,5	I through VIII
P-G badge plus	NTA	1,4,5	I, II, III, IV, V, VI, VII, VIII
H-G badge plus	NTA and Cadmium	1,4,5	I through VIII
A-G badge plus	polycarbonate	1,4,5	I, II, III, IV, V, VI, VII, VIII
J-G badge plus	polycarbonate and Cadmium	1,4,5	I through VII
Y-G badge plus	Cadmium	1,4,5	I, III
R-G badge plus	ER	1,3,4,5	I, II, III, IV, V, VI, VII, VIII
Q-DEX-RAY		1,4,5	I, III
TLD			
F-L badge plus	CR-39	2,4	I through VIII
-L badge plus	polycarbonate	2,4	I through VIII

<i>Landauer designation</i>	<i>Film Process</i>	<i>ANSI N13.11</i>	<i>Category</i>
-L badge plus	ER	2,3,4	I through VIII
T-2	chip	2	II, IV, V, VII

The following sites are included in the accreditation as sub-facilities of the above listed main facility.

The following sub-facilities are accredited to process the Landauer "D" badge employing a Harshaw 2271 automatic TLD reader for ANSI N13.11 categories II, IV, V, VII which have been deemed functionally acceptable by virtue of using identical techniques and procedures as demonstrated above for the items specified.

R.S. Landauer, Jr. & Company Nuclear Station System (NSS) sites at:

Boston Edison Company, Pilgrim Station, Plymouth, Massachusetts Alabama Power, Farley Nuclear Plant, Ashford, Alabama

The following sub-facilities are accredited to perform limited volume, emergency response processing employing either a Harshaw 3000 manual reader or manual film processing techniques for the following badges:

G-Film	"GARDRAY"	ANSI N13.11	Categories I, II, III, IV, V, VI, VII
L-TLD 4 chip	"GARDRAY"	ANSI N13.11	Categories I, II, III, IV, V, VI, VII
T-TLD 2 chip		ANSI N13.11	Categories II, IV, V, VII

R. S. Landauer, Jr. & Company Offices: El Segundo, California; Houston, Texas; Burlington, Massachusetts; and East Brunswick, New Jersey.

**NVLAP LAB CODE 0519**

**HOUSTON LIGHTING & POWER COMPANY, MANAGING PARTNER  
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION**

**P.O. Box 1700, Houston, TX 77059  
Gene R. Jarvela Phone: 512-972-3651**

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD Model UD801 for ANSI-N13.11 category IV.

**NVLAP LAB CODE 0520**

**VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION**

**P.O. Box 402, Mineral, VA 23117  
Russell R. Irwin Phone: 703-894-5151**

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual readers model 8300 and 8310.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BP3 for ANSI-N13.11 categories II, IV, V, VII.

**CONSUMERS POWER COMPANY  
PERSONNEL DOSIMETRY LABORATORY**

1945 Parnall Road, Jackson, MI 49201  
Theodore Allen Phone: 517-788-2340

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Teledyne Automatic reader model 9100.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BG for ANSI-N13.11 categories II, IV, V, VII.

Teledyne TLD model BGN for ANSI-N13.11 category VIII.

**VIRGINIA ELECTRIC & POWER COMPANY  
SURRY POWER STATION**

P.O. Box 315, Surry, VA 23883  
Dean Densmore Phone: 804-357-3184

**Accreditation Renewal Date: January 1, 1987**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual reader model 8300.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 for ANSI-N13.11 categories II, IV, V, VII.

**YANKEE ATOMIC ELECTRIC COMPANY**

1671 Worcester Road, Framingham, MA 01701  
Stephen T. Bard Phone: 617-872-8100

**Accreditation Renewal Date: October 1, 1986**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD model BGN for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, and VIII.

**KANSAS GAS AND ELECTRIC COMPANY  
WOLF CREEK GENERATING STATION**

P.O. Box 309, Burlington, KS 66839  
Mike Nichols Phone: 316-364-8831

**Accreditation Renewal Date: January 1, 1987**

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and manual reader 702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, IV, V, VII, VIII.



# INDEXES

## Index 1. Laboratory Name and NVLAP Lab Code Number

A & H/Flood Engineering	IL	0183
Aguirre Engineers, Inc.	CO	0135
American Carpet Laboratories, Inc.	GA	0139
American Testing	PA	0146
Apache Building Products Company	NJ	0218
Armstrong World Industries	PA	0228
Arnold Greene Testing Laboratories	MA	0225
Atlantic Testing Labs, Ltd.	NY	0177
Baltimore Gas & Electric Company	MD	0501
Bigelow-Sanford, Inc.	GA	0156
Bigelow-Sanford, Inc.	SC	0178
Butler Manufacturing Company	MO	0102
Central Ready-Mixed Concrete	WI	0189
CertainTeed Corporation	PA	0101
Certified Testing Laboratories, Inc.	GA	0108
Chemray Coatings Corp.	NJ	0254
Chisholm Trail Testing and	TX	0160
Commercial Testing Company	GA	0120
Conrock Co. Testing Laboratory	CA	0203
Construction Materials	CO	0215
Construction Technology Laboratories	IL	0137
Consumers Power Company	MI	0522
Contractors Supply Corporation	WV	0136
Coronet Carpets	GA	0190
Custom Coating, Inc.	GA	0243
C. H. Masland and Sons	PA	0187
Dow Chemical USA, Foam Product	OH	0103
Dynatech R/D Company	MA	0113
D/L Laboratories	NY	0252
E & B Carpet Mills	GA	0149
Eberline Services Division	NM	0515
Factory Mutual Research Corp.	MA	0115
Galaxy Carpet Mills, Inc.	GA	0163
Garco Testing Laboratories	UT	0195
Genstar Stone Products Company	MD	0141
Geoscience Ltd.	CA	0142
Gifford-Hill & Company, Inc.	TX	0253
Gold Bond Building Products	NY	0229
GPU Nuclear Corporation	PA	0510
Gulf Coast Testing Laboratory, Inc.	TX	0208
Hardwood Plywood	VA	0151
Harris Energy &	NC	0517
Hollytex Carpet Mills	OK	0247
Houston Lighting & Power Company	TX	0519
Hufcor Acoustical Laboratory	WI	0239
INTEST Laboratories, Inc.	MN	0119
Independent Textile Testing	GA	0166
Insta-Foam Products, Inc.	IL	0210
James A. Fitzpatrick Nuclear	NY	0511
Jim Walter Research Corp.	FL	0111
Kelso Industries, Inc.	TX	0143
Kansas Gas & Electric Company	KS	0526

Knauf Fiber Glass Research	IN	0248
Mallinckrodt Diagnostics, Inc.	MO	0503
Manville Corporation	CO	0123
NAHB Research Foundation, Inc.	MD	0104
Naval Medical Command	MD	0504
Naval Research Laboratory	DC	0509
Northwest Testing	OR	0244
NY Power Authority, Indian Point	NY	0508
OMNI Environmental Services, Inc.	OR	0240
Owens-Corning Fiberglas Corp	KS	0126
Owens-Corning Fiberglas Corp.	OH	0109
Owens-Corning Fiberglas Corp.	CA	0124
Owens-Corning Fiberglas Corp.	GA	0125
Owens-Corning Fiberglas Corp.	NJ	0127
Owens-Corning Fiberglas Corp.	NY	0128
Owens-Corning Fiberglas Corp.	OH	0129
Owens-Corning Fiberglas Corp.	TX	0130
Pacific Inspection and	WA	0235
PFS Corporation	WI	0223
Pittsburgh Testing Laboratory	PA	0201
Pittsburgh Testing Laboratory	NY	0237
Radiation Detection Company	CA	0512
Ritchie Laboratories	KS	0232
Riverbank Acoustical	IL	0227
R. F. Geisser & Associates	RI	0245
R. S. Landauer Jr. & Company	IL	0518
R. W. Sidley, Inc.	OH	0206
Salem Carpet Laboratory	GA	0221
Shaw Industries, Inc., QC Lab	GA	0193
Smith-Emery Company	CA	0192
Southern California Edison	CA	0506
Southwest Research Institute	TX	0114
Sparrell Engineering	ME	0121
STS Consultants, Ltd.	NC	0173
STS Consultants, Ltd.	IL	0191
STS Consultants, Ltd.	VA	0233
State of CA, Dept. of Consumer Affairs	CA	0251
Stove Testing Lab	OR	0246
Stratton Laboratories	GA	0220
Technical Micronics Control Inc.	AL	0122
Terralab Engineers	UT	0199
Texas Testing Laboratories, Inc.	TX	0196
The Arundel Corporation	MD	0154
The H. C. Nutting Company	OH	0131
The Upjohn Company	CT	0175
The Walt Keeler Company, Inc.	KS	0133
Twin City Testing and Engineering Corp.	MN	0188
Underwriters Laboratories Inc.	IL	0116
Underwriters Laboratories Inc.	CA	0117
Underwriters Laboratories Inc.	NY	0255
United States Gypsum Company	IL	0216
United States Testing Company, Inc.	NJ	0105
United States Testing Company, Inc.	CA	0106
United States Testing Company, Inc.	OK	0107
U.S. EPA, Nuclear Radiation	NV	0507
Virginia Concrete Laboratory	VA	0230
Virginia Electric & Power Company	VA	0520
Virginia Electric & Power Company	VA	0523

Warnock Hersey	WI	0249
West Virginia Dept of Highways	WV	0205
Western Electro-Acoustic	CA	0256
Western States Testing Div. of U.S. Testing	CA	0241
Wiss, Janney, Elstner and	IL	0226
World Carpets	GA	0197
W. R. Grace & Company	MA	0176
W. R. Grace & Company	MA	0250
Yankee Atomic Electric Company	MA	0524

## Index 2. LAP Name and Laboratories Accredited Under Each LAP

### Acoustics LAP

0111	Jim Walter Reseach Corp.	FL
0119	INTEST Laboratories, Inc.	MN
0109	Owens-Corning Fiberglas Corp.	OH
0227	Riverbank Acoustical	IL
0228	Armstrong World Industries	PA
0229	Gold Bond Building Products	NY
0239	Hufcor Acoustical Laboratory	WI
0256	Western Electro-Acoustic	CA

### Carpet LAP

0105	United States Testing Company, Inc.	NJ
0106	United States Testing Company, Inc.	CA
0108	Certified Testing Laboratories, Inc.	GA
0114	Southwest Research Institute	TX
0115	Factory Mutual Research Corp.	MA
0116	Underwriters Laboratories Inc.	IL
0120	Commercial Testing Company	GA
0139	American Carpet Laboratories, Inc.	GA
0149	E & B Carpet Mills	GA
0151	Hardwood Plywood	VA
0156	Bigelow-Sanford, Inc.	GA
0160	Chisholm Trail Testing and	TX
0163	Galaxy Carpet Mills, Inc.	GA
0166	Independent Textile Testing	GA
0178	Bigelow-Sanford, Inc.	SC
0187	C. H. Masland and Sons	PA
0190	Coronet Carpets	GA
0193	Shaw Industries, Inc., QC Lab	GA
0197	World Carpets	GA
0220	Stratton Laboratories	GA
0221	Salem Carpet Laboratory	GA
0243	Custom Coating, Inc.	GA
0247	Hollytex Carpet Mills	OK
0255	Underwriters Laboratories Inc.	NY

### Concrete LAP

0154	The Arundel Corporation	MD
0131	The H. C. Nutting Company	OH
0133	The Walt Keeler Company, Inc.	KS
0135	Aguirre Engineers, Inc.	CO
0136	Contractors Supply Corporation	WV
0137	Construction Technology Laboratories	IL
0141	Genstar Stone Products Company	MD
0143	Kelso Industries, Inc.	TX
0146	American Testing	PA
0173	STS Consultants, Ltd.	NC
0176	W. R. Grace & Company	MA
0177	Atlantic Testing Labs, Ltd.	NY
0183	A & H/Flood Engineering	IL
0188	Twin City Testing and Engineering	MN
0189	Central Ready-Mixed Concrete	WI
0191	STS Consultants, Ltd.	IL
0192	Smith-Emery Company	CA
0195	Garco Testing Laboratories	UT
0196	Texas Testing Laboratories, Inc.	TX



0201	Pittsburgh Testing Laboratory	PA
0203	Conrock Co. Testing Laboratory	CA
0205	West Virginia Dept of Highways	WV
0206	R. W. Sidley, Inc.	OH
0208	Gulf Coast Testing Laboratory, Inc.	TX
0215	Construction Materials	CO
0230	Virginia Concrete Laboratory	VA
0232	Ritchie Laboratories	KS
0233	STS Consultants, Ltd.	VA
0237	Pittsburgh Testing Laboratory	NY
0241	Western States Testing Div. of U.S. Testing	CA
0253	Gifford-Hill & Company, Inc.	TX

#### Commercial Products LAP

0252	D/L Laboratories	NY
0254	Chemray Coatings Corp.	NJ

#### Dosimetry LAP

0501	Baltimore Gas & Electric Company	MD
0503	Mallinckrodt Diagnostics, Inc.	MO
0504	Naval Medical Command	MD
0506	Southern California Edison	CA
0507	U.S. EPA, Nuclear Radiation	NV
0508	NY Power Authority, Indian Point	NY
0509	Naval Research Laboratory	DC
0510	GPU Nuclear Corporation	PA
0511	James A. Fitzpatrick Nuclear	NY
0512	Radiation Detection Company	CA
0515	Eberline Services Division	NM
0517	Harris Energy &	NC
0518	R. S. Landauer Jr. & Company	IL
0519	Houston Lighting & Power Company	TX
0520	Virginia Electric & Power Company	VA
0522	Consumers Power Company	MI
0523	Virginia Electric & Power Company	VA
0524	Yankee Atomic Electric Company	MA
0526	Kansas Gas & Electric Company	KS

#### Stove LAP

0116	Underwriters Laboratories Inc.	IL
0117	Underwriters Laboratories Inc.	CA
0223	PFS Corporation	WI
0225	Arnold Greene Testing Laboratories	MA
0235	Pacific Inspection and	WA
0240	OMNI Environmental Services, Inc.	OR
0244	Northwest Testing	OR
0245	R.F. Geisser & Associates	RI
0246	Stove Testing Lab	OR
0249	Warnock Hersey	WI

#### Thermal Insulation LAP

0101	CertainTeed Corporation	PA
0102	Butler Manufacturing Company	MO
0103	Dow Chemical USA, Foam Product	OH
0104	NAHB Research Foundation, Inc.	MD
0105	United States Testing Company, Inc.	NJ
0106	United States Testing Company, Inc.	CA
0107	United States Testing Company, Inc.	OK

0109	Owens-Corning Fiberglas Corp.	OH
0111	Jim Walter Reasearch Corp.	FL
0113	Dynatech R/D Company	MA
0115	Factory Mutual Research Corp.	MA
0116	Underwriters Laboratories Inc.	IL
0117	Underwriters Laboratories Inc.	CA
0120	Commercial Testing Company	GA
0121	Sparrell Engineering	ME
0122	Technical Micronics Control Inc.	AL
0123	Manville Corporation	CO
0124	Owens-Corning Fiberglas Corp.	CA
0125	Owens-Corning Fiberglas Corp.	GA
0126	Owens-Corning Fiberglas Corp.	KS
0127	Owens-Corning Fiberglas Corp.	NJ
0128	Owens-Corning Fiberglas Corp.	NY
0129	Owens-Corning Fiberglas Corp.	OH
0130	Owens-Corning Fiberglas Corp.	TX
0142	Geoscience Ltd.	CA
0151	Hardwood Plywood	VA
0175	The Upjohn Company	CT
0188	Twin City Testing and	MN
0199	Terralab Engineers	UT
0210	Insta-Foam Products, Inc.	IL
0216	United States Gypsum Company	IL
0218	Apache Building Products Company	NJ
0226	Wiss, Janney, Elstner and	IL
0248	Knauf Fiber Glass Research	IN
0250	W. R. Grace & Company	MA
0251	State of CA, Dept. of Consumer Affairs	CA

### Index 3. Accredited Laboratories by State and NVLAP Code Number

AL	Technical Micronics Contol Inc.	0122
CA	United States Testing Company, Inc.	0106
CA	Underwriters Laboratories Inc.	0117
CA	Owens-Corning Fiberglas Corp.	0124
CA	Geoscience Ltd.	0142
CA	Smith-Emery Company	0192
CA	Conrock Co. Testing Laboratory	0203
CA	Western States Testing Div. of U.S. Testing	0241
CA	Western Electro-Acoustic	0256
CA	Southern California Edison	0506
CA	Radiation Detection Company	0512
CA	State of CA, Dept. of Consumer Affairs	0251
CO	Manville Corporation	0123
CO	Aguirre Engineers, Inc.	0135
CO	Construction Materials	0215
CT	The Upjohn Company	0175
DC	Naval Research Laboratory	0509
FL	Jim Walter Research Corp.	0111
GA	Certified Testing Laboratories, Inc.	0108
GA	Commercial Testing Company	0120
GA	Owens-Corning Fiberglas Corp.	0125
GA	American Carpet Laboratories, Inc.	0139
GA	E & B Carpet Mills	0149
GA	Bigelow-Sanford, Inc.	0156
GA	Galaxy Carpet Mills, Inc.	0163
GA	Independent Textile Testing	0166
GA	Coronet Carpets	0190
GA	Shaw Industries, Inc., QC Lab	0193
GA	World Carpets	0197
GA	Stratton Laboratories	0220
GA	Salem Carpet Laboratory	0221
GA	Custom Coating, Inc.	0243
IL	Underwriters Laboratories Inc.	0116
IL	Construction Technology Laboratories	0137
IL	A & H/Flood Engineering	0183
IL	STS Consultants, Ltd.	0191
IL	Insta-Foam Products, Inc.	0210
IL	United States Gypsum Company	0216
IL	Wiss, Janney, Elstner and	0226
IL	Riverbank Acoustical	0227
IL	R. S. Landauer Jr. & Company	0518
IN	Knauf Fiber Glass Research	0248
KS	Owens-Corning Fiberglas Corp	0126
KS	The Walt Keeler Company, Inc.	0133
KS	Ritchie Laboratories	0232
KS	Kansas Gas & Electric Company	0526
MA	Dynatech R/D Company	0113
MA	Factory Mutual Research Corp.	0115
MA	W. R. Grace & Company	0176
MA	Arnold Greene Testing Laboratories	0225
MA	W. R. Grace & Company	0250
MA	Yankee Atomic Electric Company	0524
MD	The Arundel Corporation	0154
MD	NAHB Research Foundation, Inc.	0104
MD	Genstar Stone Products Company	0141
MD	Baltimore Gas & Electric Company	0501

MD	Naval Medical Command	0504
ME	Sparrell Engineering	0121
MI	Consumers Power Company	0522
MN	INTEST Laboratories, Inc.	0119
MN	Twin City Testing and	0188
MO	Butler Manufacturing Company	0102
MO	Mallinckrodt Diagnostics, Inc.	0503
NC	STS Consultants, Ltd.	0173
NC	Harris Energy &	0517
NJ	United States Testing Company, Inc.	0105
NJ	Owens-Corning Fiberglas Corp.	0127
NJ	Apache Building Products Company	0218
NJ	Chemray Coatings Corp.	0254
NM	Eberline Services Division	0515
NV	U.S. EPA, Nuclear Radiation	0507
NY	Owens-Corning Fiberglas Corp.	0128
NY	Atlantic Testing Labs, Ltd.	0177
NY	Underwriters Laboratories Inc.	0255
NY	Gold Bond Building Products	0229
NY	Pittsburgh Testing Laboratory	0237
NY	NY Power Authority, Indian Point	0508
NY	James A. Fitzpatrick Nuclear	0511
NY	D/L Laboratories	0252
OH	Dow Chemical USA, Foam Product	0103
OH	Owens-Corning Fiberglas Corp.	0109
OH	Owens-Corning Fiberglas Corp.	0109
OH	Owens-Corning Fiberglas Corp.	0129
OH	The H. C. Nutting Company	0131
OH	R. W. Sidley, Inc.	0206
OK	United States Testing Company, Inc.	0107
OK	Hollytex Carpet Mills	0247
OR	Northwest Testing	0244
OR	OMNI Environmental Services, Inc.	0240
OR	Stove Testing Lab	0246
PA	CertainTeed Corporation	0101
PA	American Testing	0146
PA	C. H. Masland and Sons	0187
PA	Pittsburgh Testing Laboratory	0201
PA	Armstrong World Industries	0228
PA	GPU Nuclear Corporation	0510
RI	R.F. Geisser & Associates	0245
SC	Bigelow-Sanford, Inc.	0178
TX	Southwest Research Institute	0114
TX	Owens-Corning Fiberglas Corp.	0130
TX	Kelso Industries, Inc.	0143
TX	Chisholm Trail Testing and	0160
TX	Texas Testing Laboratories, Inc.	0196
TX	Gulf Coast Testing Laboratory, Inc.	0208
TX	Houston Lighting & Power Company	0519
TX	Gifford-Hill & Company, Inc.	0253
UT	Garco Testing Laboratories	0195
VA	Hardwood Plywood	0151
VA	Virginia Concrete Laboratory	0230
VA	STS Consultants, Ltd.	0233
VA	Virginia Electric & Power Company	0520
VA	Virginia Electric & Power Company	0523
WA	Pacific Inspection and	0235
WI	Central Ready-Mixed Concrete	0189



WI	PFS Corporation	0223
WI	Hufcor Acoustical Laboratory	0239
WI	Warnock Hersey	0249
WV	Contractors Supply Corporation	0136
WV	West Virginia Dept of Highways	0205

## Index 4. Test Methods Available Under Each LAP and NVLAP Code Numbers of Laboratories Accredited for those Test Methods

This index provides a cross reference of accredited laboratories with test methods under each LAP. Laboratory code numbers under each test method refer to the laboratories for which the name, address, primary contact, phone number, and list of accredited test methods are identified in the Directory.

### INSULATION LAP-CORROSIVENESS TEST METHODS

01/C01	ASTM C739	0109, 0116
01/C02	HH-I-515	0101, 0106, 0107, 0109, 0115, 0116, 0120
01/C03	California Energy Commission tests for insulating materials: Corrosiveness	0101, 0109

### INSULATION LAP-DIMENSION, STABILITY, AND DENSITY TEST METHODS

01/D01	ASTM C136	0101, 0109, 0116
01/D02	ASTM C167	0101, 0104, 0109, 0116, 0123, 0124, 0126, 0127, 0128, 0129, 0130, 0248
01/D03	ASTM C209	0109, 0111, 0116, 0123
01/D04	ASTM C209	0109, 0111, 0116, 0123
01/D05	ASTM C209	0109, 0111, 0116, 0123
01/D06	ASTM C209	0109, 0111, 0116, 0123
01/D07	ASTM C272	0109, 0111
01/D08	ASTM C302	0101, 0109, 0116, 0123, 0142, 0248
01/D09	ASTM C303	0101, 0109, 0111, 0116, 0123, 0124, 0126, 0127, 0129, 0130, 0248, 0250
01/D11	ASTM C356	0109, 0123, 0248
01/D12	ASTM C411	0109, 0123, 0248
01/D13	ASTM C519	0101, 0104, 0109, 0116, 0117, 0123, 0248
01/D14	ASTM C520	0116, 0250
01/D15	ASTM D756	0109, 0210
01/D16	ASTM D756	0109, 0210
01/D17	ASTM D756	0109, 0210
01/D18	ASTM D1622	0103, 0107, 0109, 0116, 0210, 0218

### INSULATION LAP-VAPOR BARRIER PROPERTIES TEST METHODS

01/D19	ASTM D2126	0109
01/D20	ASTM D2126	0109, 0111, 0210
01/D21	ASTM D2126	0103, 0106, 0109, 0111, 0175, 0199, 0218
01/D22	ASTM D2126	0109, 0210
01/D23	ASTM D2842	0103, 0109, 0210
01/D24	ASTM C739	0109, 0116
01/D25	HH-I-515	0101, 0107, 0109, 0115, 0116, 0120, 0122, 0199
01/D26	HH-I-515	0101, 0107, 0109, 0115, 0116, 0117, 0120, 0122
01/D27	ASTM D2126	0103, 0106, 0109, 0210, 0218
01/D28	ASTM D2126	0106, 0109, 0175, 0199, 0210
01/D29	California Energy Commission tests for insulating materials:	0109

### INSULATION LAP-FIRE PROPERTIES TEST METHODS

01/F01	TAPPI T461	0101, 0109, 0123
01/F02	ASTM E84	0105, 0106, 0109, 0111, 0115, 0116, 0117, 0123, 0151, 0199
01/F05	ASTM E136	0101, 0106, 0109, 0123, 0142
01/F06	ASTM C739	0116
01/F07	HH-I-515	0101, 0105, 0106, 0109, 0115, 0116, 0117, 0120, 0122, 0151, 0199, 0251
01/F08	HH-I-515	0101, 0107, 0109, 0115, 0116, 0117, 0120, 0122, 0251

## INSULATION LAP-STRENGTH PROPERTIES TEST METHODS

01/S01	ASTM C165	0101, 0109, 0123, 0248
01/S02	ASTM C203	0103, 0109, 0111, 0116, 0123
01/S03	ASTM C209	0109, 0111, 0116, 0123
01/S04	ASTM C209	0109, 0111, 0116, 0123
01/S05	ASTM C209	0109, 0111, 0116, 0123
01/S06	ASTM C209	0109, 0111, 0116, 0123
01/S07	ASTM C273	0103, 0109,
01/S08	ASTM C446	0101, 0109, 0116, 0123
01/S09	ASTM D781	0101, 0109, 0123
01/S10	ASTM D828	0101, 0109, 0123
01/S11	ASTM D1621	0103, 0109, 0111, 0116, 0199, 0210, 0218
01/S12	California Energy Commission tests for insulating materials:	0101
01/S13	California Energy Commission tests for insulating materials:	
01/S14	California Energy Commission tests for insulating materials:	

## INSULATION LAP-THERMAL PROPERTIES TEST METHODS

01/T01	ASTM C177	0101, 0109, 0111, 0113, 0121, 0123, 0142, 0248
01/T04	ASTM C236	0101, 0102, 0109, 0111, 0113, 0121, 0123, 0142, 0188, 0226, 0250
01/T05	ASTM C335	0101, 0109, 0111, 0113, 0123, 0210, 0248
01/T06	ASTM C518	0101, 0102, 0103, 0104, 0105, 0109, 0111, 0113, 0116, 0120, 0121, 0122, 0123, 0124, 0125, 0126, 0127, 0128, 0129, 0130, 0175, 0199, 0210, 0216, 0218, 0248, 0250
01/T09	ASTM C653	0101, 0104, 0109, 0116, 0123, 0248
01/T10	ASTM C687	0101, 0104, 0109, 0116, 0123, 0248

## INSULATION LAP-OTHER TEST METHODS

01/V02	TAPPI T419	0109, 0116
01/V03	ASTM D2020	0109, 0116
01/V04	ASTM E96	0101, 0103, 0106, 0107, 0109, 0111, 0123, 0210
01/V05	HH-I-515	0107, 0109, 0116
01/V06	HH-I-515	0107, 0116, 0122

## CONCRETE LAP-FIELD TEST METHODS

02/M01	ASTM C31	
02/M03	ASTM C172	
02/P01	ASTM C143	
02/W01	ASTM C138	
02/A01	ASTM C231	0133

## CONCRETE LAP-FIELD PLUS LABORATORY TEST METHODS

Field Test Methods listed above plus:

02/S01	ASTM C39	0131, 0135, 0136, 0137, 0141, 0143, 0146, 0154, 0173, 0176, 0177, 0183, 0188, 0189, 0191, 0192, 0195, 0196, 0201, 0203, 0205, 0206, 0208, 0215, 0230, 0231, 0232, 0233, 0237, 0241, 0253
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## CONCRETE LAP-OPTIONAL TEST METHOD

02/A02	ASTM C173	0131, 0133, 0135, 0137, 0141, 0143, 0146, 0154, 0173, 0176, 0177, 0183, 0188, 0191, 0192, 0195, 0196, 0201, 0203, 0205, 0206, 0208, 0215, 0230, 0232, 0237, 0241, 0253
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## CARPET LAP

03/C01	AATCC 16E	0105, 0106, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187, 0190, 0193, 0197, 0221
03/C02	AATCC 8	0105, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187, 0190, 0193, 0197, 0221, 0247
03/D01	ASTM D418	0105, 0106, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187, 0190, 0193, 0197, 0221
03/D02	DDD-C-95A	0105, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187, 0190, 0193, 0197, 0221
03/S01	ASTM D1335	0105, 0108, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187, 0190, 0193, 0197, 0220, 0221, 0247
03/E01	AATCC 134/CRI 102	0108, 0166, 0178
03/F01	ASTM E84	0105, 0106, 0114, 0115, 0116, 0120, 0151,
03/F02	UL 992	0114, 0116
03/F03	DoC FF1-70	0105, 0106, 0108, 0114, 0116, 0120, 0139, 0149, 0156, 0160, 0163, 0166, 0178, 0187, 0190, 0193, 0197, 0220, 0221, 0243, 0247, 0255
03/F04	ASTM E648	0105, 0106, 0108, 0114, 0115, 0116, 0120, 0151, 0166, 0178, 0220, 0221, 0255
03/B01	UM 44C Addendum 3	0156, 0178
03/B02	UM 44C Addenda 2 and 3	0105, 0108, 0120, 0139, 0163, 0166

## STOVE LAP

Physical/Fire Group	UL 737, UL 1482
Physical/Fire Group	CSA B336.2
Physical/Fire Group and Mobile Home Group	UL 737, UL 1482
Physical/Fire Group and Mobile Home Group	CSA B336.2
Physical/Fire Group and Electrical Group	UL 737, UL 1482
Physical/Fire Group and Electrical Group	CSA C 22.2 Nos. 103 and 113
Physical/Fire Group and Mobile Home Group and Electrical Group	UL 737, UL 1482 0116, 0117, 0223, 0225, 0235, 0240, 0244, 0245, 0246, 0249
Physical/Fire Group and Mobile Home Group and Electrical Group	CSA B336.2, CSA C 22.2 No. 103, and CSA C 22.2 No. 113

## ACOUSTICS LAP-PRECISION TEST METHODS

08/P01	ASTM C367-78	0109
08/P02	ASTM C384-77	0109, 0111, 0119, 0123
08/P03	ASTM C423-81	0109, 0111, 0119, 0123, 0227, 0228, 0229
08/P04	ASTM C522-80	0109, 0123
08/P05	ASTM C523-68 (81)	0109, 0227, 0229
08/P06	ASTM E90-82	0109, 0111, 0119, 0123, 0227, 0229, 0239
08/P07	ASTM E492-82	0227, 0228
08/P08	ASTM E596-78	
08/P09	ASTM E756-82	
08/P10	ANSI S1.31-80	0109, 0227
08/P11	ANSI S1.31-80	0119
08/P12	ANSI S1.31-80	



08/P13	ANSI S1.32-80	0109
08/P14	ANSI S1.35-79	
08/P15	ANSI S1.35-79	
08/P16	ANSI S1.35-79	
08/P17	ISO 3741-75	0227
08/P18	ISO 3741-75	
08/P19	ISO 3741-75	
08/P20	ISO 3742-75	
08/P21	ISO 3745-77	
08/P22	ISO 3745-77	
08/P23	ISO 3745-77	

#### ACOUSTICS LAP-ENGINEERING TEST METHODS

08/E01	ANSI B71.1-80 (para. 9 and 21)	0227
08/E02	ANSI S1.29-79	
08/E03	ANSI S1.34-80	
08/E04	ANSI S3.19-75	0119
08/E05	ANSI S5.1-71	
08/E06	ANSI S5.1-71	
08/E07	ANSI S5.1-71	
08/E08	ANSI S5.1-71	
08/E09	ISO 362-81	
08/E10	ISO 512-79	
08/E11	ISO 3744-81	
08/E12	ISO 5130-82	
08/E13	SAE J192a-75	0119
08/E14	SAE J1161-76	0119
08/E15	Title 40, CFR, Part 205	
08/E16	Title 40, CFR, Part 205	
08/E17	Title 40, CFR, Part 205	
08/E18	Title 40, CFR, Part 205	
08/E19	Title 40, CFR, Part 205	
08/E20	AMCA Test Code 300-1967	
08/E21	AMA-1-II-67	0109, 0111, 0119, 0229
08/E22	EEC 81/334 (Annex I, para. 5.2)	
08/E23	EEC 70/388	
08/E24	TRIAS 20-1980	
08/E25	TRIAS 21-1979	
08/E26	ECE Regulation No. 28	
08/E27	ECE Regulation No. 51-1983 (Annex 3)	

#### COMMERCIAL PRODUCTS LAP

See the entries in the Directory for NVLAP Lab Code Numbers 0252 and 0254 for accredited test methods.

#### PAINTS AND RELATED COATINGS AND MATERIALS Measurements of Intrinsic Physical Properties

09/A01	ASTM D56
09/A02	ASTM D93
09/A03	ASTM D153
09/A04	ASTM D185
09/A05	ASTM D281
09/A06	ASTM D387
09/A07	ASTM D523
09/A08	ASTM D562
09/A09	ASTM D1005

09/A10	ASTM D1186
09/A11	ASTM D1200
09/A12	ASTM D1210
09/A13	ASTM D1212
09/A14	ASTM D1296
09/A15	ASTM D1310
09/A16	ASTM D1400
09/A17	ASTM D1475
09/A18	ASTM D1544
09/A19	ASTM D1729
09/A20	ASTM D2244
09/A21	ASTM D3278
09/A22	ASTM D3363
09/A23	ASTM D3793
09/A24	ASTM D4061
09/A25	ASTM D4212-82
09/A26	ASTM E97
09/A27	ASTM E308
09/A28	ASTM E313
09/A29	ASTM E430

#### **Measurements of Performance and Performance Change**

09/B01	ASTM D279
09/B02	ASTM D332
09/B03	ASTM D344
09/B04	ASTM D610
09/B05	ASTM D659
09/B06	ASTM D660
09/B07	ASTM D661
09/B08	ASTM D662
09/B09	ASTM D711
09/B10	ASTM D714
09/B11	ASTM D772
09/B12	ASTM D821
09/B13	ASTM D868
09/B14	ASTM D869
09/B15	ASTM D880
09/B16	ASTM D913
09/B17	ASTM D968
09/B18	ASTM D969
09/B19	ASTM D1308
09/B20	ASTM D1309
09/B21	ASTM D1360
09/B22	ASTM D1543
09/B23	ASTM D1640
09/B24	ASTM D1737
09/B25	ASTM D2197
09/B26	ASTM D2243
09/B27	ASTM D2248
09/B28	ASTM D2366
09/B29	ASTM D2486
09/B30	ASTM D2801
09/B31	ASTM D2805
09/B32	ASTM D3273
09/B33	ASTM D3274
09/B34	ASTM D3450
09/B35	ASTM D3456
09/B36	ASTM D3623

09/B37	ASTM D4060
09/B38	ASTM D4062
09/B39	ASTM D4213
09/B40	ASTM D4214
09/B41	Fed. Std. 141 Method 4494
09/B42	Fed. Std. 141 Method 4061

#### **Measurement of Chemical Properties and Compositions**

09/C01	ASTM D34
09/C02	ASTM D95
09/C03	ASTM D521
09/C04	ASTM D563
09/C05	ASTM D611
09/C06	ASTM D1078
09/C07	ASTM D1133
09/C08	ASTM D1208
09/C09	ASTM D1259
09/C10	ASTM D1306
09/C11	ASTM D1353
09/C12	ASTM D1364
09/C13	ASTM D1394
09/C14	ASTM D1397
09/C15	ASTM D1398
09/C16	ASTM D1399
09/C17	ASTM D1467
09/C18	ASTM D1469
09/C19	ASTM D1541
09/C20	ASTM D1613
09/C21	ASTM D1639
09/C22	ASTM D1644
09/C23	ASTM D1652
09/C24	ASTM D2075
09/C25	ASTM D2076
09/C26	ASTM D2369
09/C27	ASTM D2371
09/C28	ASTM D2697
09/C29	ASTM D2698
09/C30	ASTM D2832
09/C31	ASTM D3009
09/C32	ASTM D3271
09/C33	ASTM D3272
09/C34	ASTM D3335
09/C35	ASTM D3624
09/C36	ASTM D3718
09/C37	ASTM D3723
09/C38	ASTM D3792
09/C39	ASTM D3960
09/C40	ASTM D4017

#### **Test Sample Conditioning and Preparation**

09/D01	ASTM B117
09/D02	ASTM D609
09/D03	ASTM D822
09/D04	ASTM D823
09/D05	ASTM D1106
09/D06	ASTM D1014

09/D07	ASTM D1654
09/D08	ASTM D1730
09/D09	ASTM D1734
09/D10	ASTM D2247
09/D11	ASTM D2372
09/D12	ASTM D3361
09/D13	ASTM D3924
09/D14	ASTM G23
09/D15	ASTM G26
09/D16	ASTM G53

## **PAPER AND RELATED PRODUCTS**

### **Paper and Paperboard**

09/E01	TAPPI T208-OS
09/E02	TAPPI T402-OM
	ASTM D685
09/E03	TAPPI T403-OS
	ASTM D774
09/E04	TAPPI T404-OM
	ASTM D828
09/E05	TAPPI T410-OM
09/E06	TAPPI T411-OM
09/E07	TAPPI T412-OM
	ASTM D644
09/E08	TAPPI T414-OM
	ASTM D689
09/E09	TAPPI T425-OM
09/E10	TAPPI T435-OM
09/E11	TAPPI T452-OM
09/E12	TAPPI T459-OM
	ASTM D2482
09/E13	TAPPI T460-OM
	ASTM D726
09/E14	TAPPI T480-OM
09/E15	TAPPI T480-OS
09/E16	TAPPI T489-OS
09/E17	TAPPI T494-OM
09/E18	TAPPI T511-OM
	ASTM D2176
09/E19	TAPPI T538-PM
09/E20	TAPPI T809-OM
09/E21	TAPPI T818-OM
	ASTM D1164

### **Paper Specifications**

09/F01	ASTM D3208
	para. 11
09/F02	ASTM D3290
	para. 11.2

### **Pressure Sensitive Tapes**

09/G01	ASTM D3330,
	D3330M
09/G02	ASTM D3652
09/G03	ASTM D3654,
	D3654M
09/G04	ASTM D3662



09/G05	ASTM D3759
09/G06	ASTM D3811
09/G07	ASTM D3815

#### Packaging

09/H01	ASTM D642
09/H02	ASTM D895
09/H03	ASTM D1108

#### Federal Test Method Standard 101C for Preservation, Packaging, and Packaging Materials

09/H04	Method 4035
09/H05	Method 4047
09/H06	Method 5001
09/H07	Method 5005.1
09/H08	Method 5007.1
09/H09	Method 5008.1
09/H10	Method 5009.2
09/H11	Method 5011.1
09/H12	Method 5012
09/H13	Method 5013
09/H14	Method 5014
09/H15	Method 5015
09/H16	Method 5016.1
09/H17	Method 5017
09/H18	Method 5018
09/H19	Method 5019.1
09/H20	Method 5020.1
09/H21	Method 5023
09/H22	Method 5026

#### MATTRESSES

09/K01	16 CFR Part 1632 Sec. 1632.4
09/K02	MIL-R-0020092J(SH) Sec. 4.4
09/K03	MIL-M-18251F Sec. 4.5.1
09/K04	CCC- C-436D Sec. 4.4
09/K05	V-M-96H Sec. 4.4.1.1 & Sec. 4.5
09/K06	AH&MA/NABM

**DOSIMETRY LAP**  
**Radiation Test Categories**

ANSI N13.11-1983

- I. Accidents, Low energy photons  
0501, 0506, 0508, 0510, 0512, 0515, 0517, 0518, 0524
- II. Accidents, High energy photons  
0501, 0504, 0506, 0508, 0509, 0510, 0511, 0512, 0515, 0517, 0518, 0520, 0520, 0522, 0523,  
0524, 0526
- III. Protection, Low energy photons  
0501, 0504, 0506, 0508, 0509, 0510, 0512, 0515, 0517, 0518, 0524
- IV. Protection, High energy photons  
0501, 0504, 0506, 0507, 0508, 0509, 0510, 0511, 0512, 0515, 0517, 0518, 0519, 0520, 0522,  
0523, 0524, 0526
- V. Protection, Beta particles  
0501, 0504, 0506, 0508, 0510, 0512, 0515, 0517, 0518, 0520, 0522, 0523, 0524, 0526
- VI. Protection, Photon mixtures  
0501, 0504, 0506, 0508, 0509, 0510, 0511, 0512, 0515, 0517, 0518, 0524
- VII. Protection, Mixtures photons and beta particles  
0501, 0503, 0504, 0506, 0508, 0510, 0511, 0512, 0515, 0517, 0518, 0520, 0522, 0523, 0524,  
0526
- VIII. Protection, Mixtures fission neutrons and high energy photons  
0501, 0504, 0509, 0510, 0512, 0515, 0517, 0518, 0522, 0524, 0526

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